



**BEML LIMITED**

**TENDER DOCUMENT**

**For**

**EXPANSION OF MATERIAL MANAGEMENT OFFICE & FURNISHING OF NEW STORE  
OFFICE AT STORES SHED 2 WITH NETWORKING AT BEML, PALAKKAD COMPLEX.**

**Bid No: 6300040240**

**LAST DATE FOR SUBMISSION ONLINE: 20.01.2026 @ 17.00 Hrs.**

**ISSUED BY**

**The General Manager,  
Material Management  
BEML Limited  
Palakkad Complex**

**Bid invitation No: 6300040240**

**Closing Date: 20.01.2026**

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**02. QUALIFICATION CRITERIA**

A. Tender Description		As indicated in TENDER NOTICE		
B. Contract period		FOUR (04) Months		
C. Tender No.		6300040240		
D. Tender closing date / time		20.01.2026 @ 17.00 Hrs.		
Security Deposit		10% of P.O value to be submitted		
E. Labour License under contract labour (R & A) ACT 1970 and Central Rules made there under		Successful bidder has to submit a valid Labour license / Proof of applying for the same within a period of one month from the date of awarding work order.		
F. PF / ESI		Firm should have PF/ESI Code Nos OR on award of contract the successful bidder (Firm) shall apply for PF/ESI codes to the respective authorities. In case the firms have registration in other states (other than Kerala) they have to agree to obtain separate sub code for the local area.		
The scanned copies of following qualifying documents are to be uploaded along with the Technical bid.				
Sl. no	Description	Requirement		Remarks
		Detail	Value Rs. in Lakhs	
1	Tender Document	To be uploaded in SRM		Signed & sealed Tender document to be uploaded in SRM along with other Technical documents.
2	NIT Acceptance Letter	NIT Acceptance letter to be uploaded in SRM		Signed & sealed NIT Acceptance letter to be uploaded in SRM along with other Technical documents.
3	Corrigendum if any	All pages of corrigendum need to be signed & sealed.		Corrigendum to be submitted along with other technical documents.
4	Average Minimum Annual Financial Turn over in last 3 years ending 31 <sup>st</sup> March 2025	Certified by practicing CA	5.59	CA certificate to be submitted along with other technical documents.
5	Experience in executing similar type of works/ civil works completed	3 Similar works each of Minimum value	7.46	(a) The experience certificate shall be considered only for the

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	during last 7 years ending <b>November 2025</b> value greater than or equal to the said requirement. <b>Note:</b> (i) Similar works means Civil construction works including interior furnishing works or Interior furnishing works carried out in public sector/Private organizations & Govt. organizations. (ii). The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7 % per annum, calculated from the date of completion to the last date of receipt of applications for tenders.	2 Similar works each of Minimum value	<b>9.32</b>	works completed in full & complete. (b) Select any applicable one and upload scanned copy of similar work completion certificates issued by client. (c) If the works /contracts were carried out in other than Government or PSUs, the bidders have to submit TDS Certificates along with experience Certificate.
		1 Similar work of Minimum value	<b>14.91</b>	
6	Earnest Money Deposit (EMD)	To be remitted before tender closing date	<b>0.38</b>	Proof of remittance to be submitted in SRM (RTGS / DD/Cheque) to be uploaded
7	PF & ESI Registration Certificate	Enclose copy		Copy to be submitted
8	PAN No. & GST No	Enclose copy		Copy to be submitted
9	Latest 3 Financial Years IT returns Filing	Enclose copy		Copy to be submitted
10	Labour License under contract labour (R & A) ACT 1970 and Central Rules made there under	Enclose copy		If labour license already available copy to be scanned uploaded.

**SIGNATURE OF CONTRACTOR (S) WITH SEAL**

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**03.NOTICE INVITING TENDER (NIT)**

**SUBJECT: “Expansion of Material Management Office & Furnituring of new store office at stores shed 2 with networking at BEML, Palakkad Complex.”**

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**INTRODUCTION:**

BEML intends to “**Expansion of Material Management Office & Furnituring of new store office at stores shed 2 with networking at BEML, Palakkad Complex.**” as the detailed specification mentioned in Bill of Quantities (BOQ) and as per enclosed drawings. Further to the above cited tender notice we would like to appraise the bidders with the following details:

BEML Limited is a Government of India undertaking, under the Ministry of Defence Production, having manufacturing units at KGF, Bengaluru, Mysore, & Palakkad. Tenders in prescribed form is invited for the subject work, interested bidders can down load the tender document released along with this notification and quote in two bid system as mentioned below:

**BEML LIMITED** invites tender in two bid system (Submission of EMD and Technical Bid & Commercial Bid through SRM) from eligible reputed firms / contractors for the **subject work** as per BoQ and Scope of works at BEML Limited, Palakkad complex.

Please submit your Quotations through e-mode on BEML SRM platform, as per tender for the subject works at Palakkad complex, BEML LIMITED, Palakkad, as stated in the scope of work.

**This Tender consisting of two parts:**

Part A – Submission of EMD and Technical Bid i.e. Submission of Technical Bid (Through SRM)

Part B – Commercial Bid i.e. Submission of Price Bid (Through SRM)

Instructions for submission of the bids:

Both Technical Bid (incl of payment of EMD) and Commercial bid are to be submitted through electronic mode only in the SRM system.

**Part A: Technical Bid: (Online mode)**

- a) Please upload all the technical bid documents in the SRM system and ensure that no price details are mentioned in any of the documents uploaded as part of the Technical Bid.
- b) Corrigendum regarding the tender if any will be published in SRM website only before the tender closing date. Bidders to make note of the above and check the website before tender closing date / time to have the latest communication / update. The same to be signed with company seal and scanned copy to be uploaded with the technical bid documents.

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- c) Documents as indicated in the Mandatory qualifications of the contractor for eligibility are to be uploaded on SRM Platform. (Commercial bids of the bidder will be opened only if all the technical requirements are fulfilled and qualified through technical evaluation. Hence the bidders are advised to upload all the required documents carefully.)
- d) The tender documents will be considered at the sole discretion of M/s BEML Ltd, whose decision in the matter will be Final & Binding. Failure to do so will result in rejection of the bid.

**Part B: Submission of Commercial Bid: (e-mode)**

- a) Price bid to be submitted in SRM system only against the respective line items provided therein before tender closing date and time specified.
- b) In case Bidder is not quoting for all the activities in price bid, then their offer will be rejected.
- c) Quotations sent by Fax / Email / Quotations on letter heads will not be entertained. The offers should be only on SRM platform.

Technical Bid will be opened first on the specified date and time. Commercial Bid (Bill of quantities) will be opened only, if the firm qualifies in the Technical Bid. Incomplete details of the Technical Bid will be rejected summarily. BEML have its right to reject any bid without assigning any reason what so ever.

Incomplete / Invalid Tenders and tenderers submitting without payment of EMD (as per SRM) will be rejected and no correspondence will be entertained in case of rejection.

**General Instructions with regard to EMD:**

- a) Quotation submitted online without submission of EMD in-time will not be considered.
- b) EMD submitted in any other form will not be accepted and the offer is liable to be rejected.
- c) EMD lesser than will not be accepted and the quotation is liable to be rejected.
- d) EMD of technical disqualified bidders will be returned.
- e) EMD does not carry any interest on return.
- f) Pre-qualification and technical bids shall be opened **on closing date i.e. 20.01.2026.**
- g) No responsibility will be taken for postal delay or non-delivery/non-receipt of EMD

Offers without EMD or EMD in the form other than the one specified or EMD with lesser amount shall not be considered and tenders will be rejected. No Interest would be paid on the Earnest Money Deposit.

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**Completion Period:** The period allowed for execution of the work is till completion of project in all respects and details (Scope, time and payment schedule) of Terms and Conditions from the date to be mentioned in the work order to be placed on the successful bidder.

**Communication:** Any queries/clarification / information / details regarding tender enquiry to be communicated only through email Id: [ashok.bb@bemltd.in](mailto:ashok.bb@bemltd.in) and queries/clarification/information/details will be accepted up to two days prior to the closing date of the tender.

**Other Terms related to Tender:**

- 1) The company does not bind itself to accept the lowest or any other tender.
- 2) The tender shall remain open for acceptance for a period of **180 days** from the date of opening of tenders.
- 3) The intended bidders may visit the site and acquaint themselves with the conditions of the site prior to submission of tenders and no claims will be entertained later on the grounds of ignorance.
- 4) The successful bidder is required to sign the work order prepared based on the quoted rates placed on him by the Accepting Officer.
- 5) The Accepting Officer reserves the right to place order as a whole or part of any item only as deemed fit.
- 6) In case, the Successful consultant/firm after quoting withdraw from the tender or refuse / delay in commencing the work or stop the work abruptly, their EMD will be forfeited.

**Conditional tenders are liable to be rejected.**

Thanking you

Yours faithfully,

for BEML Limited

-Sd/-

**The General Manager,**  
Material Management  
BEML Limited  
Palakkad Complex

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**04. GENERAL CONDITIONS:**

(UNDER WHICH THE WORKS HEREINAFTER DESCRIBED ARE TO BE PERFORMED)

**1. INTERPRETATION CLAUSE:**

In these General Conditions and the Specifications attached, the word 'COMPANY' shall be held to mean 'BEML LIMITED', the word 'CONTRACTOR' shall be held to mean one or more contractor or contractors jointly or generally engaged in the works to which these General Conditions and the specifications relate, and shall include his/their heirs, executors and administrators. The word 'ENGINEER-IN-CHARGE', shall be held to mean a Member of the staff of the BEML to supervise the work. The expression 'SITE OF WORKS', shall be held to mean the extent of land which the Company places at the disposal of the Contractor from time to time for the purpose of executing the contract works. The word 'DRAWINGS' shall be held to mean 'THE PLANS, SECTIONS, ELEVATIONS AND DETAILS OF WORKS' annexed to the contract and such further drawings, as the Engineer in charge may issue from time to time during the progress of the works and shall be held to include tracings and photographic prints. The word SPECIFICATIONS shall be held to include the tender General Conditions, Specifications, Schedule of Prices and Bill of Quantities.

**2. SUFFICIENCY OF PRICED BILL OF QUANTITIES AND TENDER:**

On the acceptance of this tender, the contractor shall forthwith satisfy himself as to the correctness and sufficiency of his tender for the works as well as all prices stated in the Bill of Quantities and the schedule of Prices and within SEVEN DAYS of the acceptance of his tender, he shall sign the contract which shall be construed and taken as an acknowledgement on his part of his complete satisfaction and acquiescence in the sufficiency of the prices. The amount of the tender shall be the sum at which the contractor engages to execute whole of the works set-forth in the Bill of Quantities, the contractor shall submit to the company, with his tender both Schedule of Prices and Bill of Quantities upon which the tender has been based fully and completely priced. Items left unpriced in the bill of Quantities shall be held to be included in the prices for other items of the work.

**3. CONTRACTOR TO EXECUTE CONTRACT WITH THE COMPANY:**

The successful contractor shall within SEVEN DAYS of the acceptance of his tender enter into and execute a formal indenture of contract to be prepared by the Company's Solicitor. The contractor shall not be entitled to make any charges for perusal of the contract.

**4. CONTRACT NOT TO BE ASSIGNED OR UNDERLET AND CONSEQUENCE OF GRATUITIES BEING GIVEN:**

The contractor shall not assign or make over the contract to any other person, or underlet it, or make a sub-contract with any workmen or workman for the execution of any part of work(s), but shall employ his own workmen for the labour thereof, who shall be paid by him in wages by the day. And in case the Contractor assigns or makes over the contract, or underlet or make



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sub-contract, contrary to this clause or either himself or his agents give any gratuity to any employee of the Company, the company shall be at liberty to terminate the contract.

**5. TENDER OR AGREED RATE:**

The contractor shall agree not to petition for revision of rates tendered for by him under any circumstances at any stage of the work, either during execution or when the final claims are settled.

6. In the event of anything evidently necessary to the due and complete performance of the works being omitted to be shown on the drawings or described in the specification or being omitted from the Bill of Quantities through oversight or error, the contractor shall, notwithstanding, execute (in the most perfect manner) all such works the same as if they had been severally shown, described and included without being entitled to make any extra claim or charge.

7. The contractor shall satisfy himself or shall be deemed to have satisfied himself as to the nature of the sub-soil, the three dimensions, levels, character and nature of all roads, existing drains, sewers, water, gas or other mains, electric cables and other things as regards any connection they may have with the works the subject of the contract, and he shall also inspect the site of the works and surroundings, the means of access there to and egress therefrom and shall generally obtain his own information on all matters and things which can in any manner influence his tender, No claims for extra works otherwise will be allowed in consequence of any misunderstandings, error or incorrect information on these points, or of any other inaccuracies in reference thereto, which may appear on the drawings, or in the specification, nor shall the contract be nullified in consequence of any such misunderstanding, error incorrect information or in-accuracies.

**8. ENGINEER IN CHARGE'S ORDERS TO COMMENCE WORKS AND AS TO NON-DELIVERY OF SITE:**

The Contractor having signed the contract, the Chief Engineer will forthwith give him notice to commence the works and the contractor shall upon receipt of such notice, commence the works and carry them on at such point and points and in such portions as the Engineer in charge may direct.

The Company shall, with the Engineer in charge written order to commence the works, give to the contractor, the use of so much of the site of works, as may in the opinion of the Chief Engineer be required in order to enable the contractor to commence and continue the construction of the works, and shall from time to time as works proceed give the contractor the use of such further portions of such site as the Engineer in charge may from time to time consider proper in that behalf, but the non-delivery in manner aforesaid of the use of such site or any portion thereof shall not vitiate or affect the contract, nor any provision contained in the specification nor entitle the contractor to any increased allowance in respect of money.

**9. SETTING OUT WORKS AND NOTICES:**

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The Contractor shall set out the whole of the works and be responsible for the correctness of the position, levels and dimensions of the several works, according to the drawings and written instructions of the Engineer in charge. If at any time during the progress of the works any error shall appear or arise in the position, levels or dimensions of the several works, the contractors on being required to do so by the Engineer in charge, shall at his own expense remove and amend the works to the satisfaction of the Engineer in charge, notwithstanding that he may have been assisted by Engineer-In-Charge in setting out the same. The contractor shall observe, perform and comply with the requirements of all statutes and byelaws and shall also serve notice on the authorities having control of the road surfaces before the same are broken up and he shall likewise serve notices on the owners of the sewers, drains, water, gas or other mains, electric cables and other things which may be in any way affected by the execution of the contract work.

**10. TIME OF WORKING (APPLIES ONLY FOR FACTORY AREA):**

As the entry and exit of the workmen into the factory area is controlled by the Security Authorities of the Factory, the contractor should strictly adhere to the timings of entry and exit, laid down by the authorities and the rates quoted are deemed to include for this provision.

**11. NIGHT WORKS:**

The works shall be carried on day and night continuously without extra charge. If bad or treacherous ground be met with or if there be any other causes whatsoever, which in the judgment of the Engineer-In-Charge, requires, it, but no work shall be carried on in the night without the knowledge and sanction of the Engineer-in-charge.

**12. WATCHMEN, LIGHTS, ETC., TO BE PROVIDED BY THE CONTRACTOR:**

The Contractor, shall at his own cost provide night watchmen to all parts of the work where necessary required by the Engineer-in-Charge, He shall also keep all open trenches, excavation or other dangerous places properly and sufficiently lighted between sunset and sunrise, and shall provide and fix proper fencings and boarding and temporary bridges to protect and assist the public traffic. The contractor shall also at his own cost erect temporary fences on the site of works where required by the Engineer-in-charge.

**13. TEST MATERIALS:**

All the materials to be used in and on every part of the works shall be subjected from time to time to such tests as the Engineer in charge may direct. Such tests shall be performed at the expense of the contractor but the Company shall refund to the Contractor the actual cost of testing any of the materials which are proved to conform with the conditions of the specifications but the samples shall be, in all cases, selected by the Engineer in charge, and supplied by the contractor as part of the contract. If, at any time, any materials so tested is not equal to the test for such materials, hereinafter specified, the same shall be removed from the site of works, and other materials substituted therefor, but in the absence of any specified test,

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the decision of the Engineer in charge, shall be final as to whether the said material or materials shall be used in the works, or forthwith removed and other materials substituted.

**14. MATERIALS, TOOLS ETC., BROUGHT ON TO WORKS TO BECOME PROPERTY OF COMPANY DURING CONTINUANCE OF CONTRACT:**

All materials, tools, implements and other things brought by the Contractor upon Company's works shall there upon become and shall continue to be the absolute property of the Company and be considered in its possession, the Contractor having only the right of using the same for the purpose of the contract. After the works have been completed and all obligations under the contract duly fulfilled, the Company shall return to the Contractor the tools, implements and surplus or waste materials then remaining upon the Company's works to be removed by him forth-with and cleared away. Nevertheless, the Company shall not at any time be liable for the loss of any of the said materials, tools, implements or other things but the whole of this liability shall fall upon the Contractor, the same as if they had remained in his possession.

**15. POWER TO VARY WORKS:**

The Company shall have full power and authority from time to time, and at all times, to order works additional to the contract, and to make and issue such further drawings and to give such further instructions and direction as may appear necessary or proper for the guidance of the contractor and the good and sufficient execution of the contract, and the contractor shall receive, execute, obey and be bound by the said further drawings, instruction and directions, according to the true intent and meaning thereof and as fully and effectively as though they had accompanied, or had been mentioned or referred to in the original drawings and specifications. The company shall also have power to vary or alter the levels or position of any of the works, the subject of this contract, or may order any of the works contemplated thereby to be omitted with or without the substitution, of any other works in lieu thereof, or may order any work, or any portion of work executed or partly executed, to be removed, changed or altered, and if needed that other work shall be substituted in lieu thereof and the difference of expense occasioned by any such increase, diminution or alterations so ordered and directed shall be added to or deducted from the amount of the contract agreeable to the prices for similar works set forth in the Bill of Quantities, or failing which the Schedule of Prices attached hereto, and in the absence of any such similar work being scheduled, the Engineer in charge shall determine the amount to be paid for such additions or deductions. The company will in no case become liable to the payment of any charge in respect of any such conditions, alteration or deviations, unless the instructions for the performance of the same shall have been given in writing and signed by the Engineer in charge, nor unless such instructions distinctly states that the matter thereof is to be subject of an extra or varied charge, in the form of an order hereinafter set forth nor unless the claim thereof shall be made in writing, signed by the Contractor and in the form of claim herein as set forth and properly filled up nor unless such claim be made within the week in which the work is executed and materials used, and before the same shall have been placed out of view, or beyond check of measurement, nor unless the value of any altered or varied works, or any further works shall wherever practicable have been determined and settled before such altered, varied or further works shall have been commenced. Such value in case of dispute shall be ascertained by the

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Engineer in charge ,, who shall determine in all cases whether such previous determination and settlements were practicable or not, and in all the cases where he shall consider the same to have been practicable, the contractor shall not be entitled to make any claim in respect of such altered, or varied or further works if it shall, in the opinion of the Engineer in charge ,, if any special instance become necessary to execute any additional or substituted work, either wholly or in part by the day the claim therefor, shall not be recognized unless the contractor shall have delivered to the Engineer-in-charge , within one working day, and so on from day to day a true and exact list of the name, occupations, time and wages of the several workmen engaged during the previous day on any and every such works in respect of when a charge 'BY THE DAY' is intended to be made in the next succeeding weekly claim of contractor, Nevertheless, no charge 'BY THE DAY' shall be made unless, in the opinion of the Engineer in charge, it is impracticable or unreasonable to determine the value of the amount of work in manner otherwise provided for in these general conditions. All such instruction given by the Engineer in charge, shall be in the following form or as near there to as may be:

ORDER No:

CONTRACT No.

In pursuance of Clause-15 of the General Conditions of contract and subject as there in mentioned, we request you to perform the under mentioned at the under mentioned price, namely:

SUCH WORK  
BEING IN

ADDITIONAL TO  
SUBSTITUTION FOR

WORK INCLUDED  
IN THE

tender, and we request you to omit the under mentioned work at the under mentioned prices, viz.

DATE:

SIGNATURE OF THE  
ENGINEER-IN-CHARGE.

AND every claim shall be made in the following form:

CLAIM No: \_\_\_\_\_ CONTRACT No. \_\_\_\_\_

Contractors claim under and subject to Clause-18 of the General Conditions of Contract for the week ended Saturday the \_\_\_\_\_ day of \_\_\_\_\_ in respect of other than contract work.

Work Claimed For	Number Of Engineer's Order	Price of Similar Work in Bill of Quantity of Schedule.	Where no Similar Work in Bill of Quantity of Schedule.	Amount claimed Rs.
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Qty in Mtrs.	Des-crip-tion.		Number/ Number of items	Value of Item.	Schedule Price of Labour.	
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DATE:

SIGNATURE OF THE CONTRACTOR 'S

The claim shall be delivered to the Engineer-in-charge , for his examination before being transmitted by him to the Chief Engineer and shall be subject in all respect to the consideration, ratification and correction of the Chief Engineer who shall be at liberty to decide whether any such claim entitle the Contractor to any, and if so, what extra charges, according to the true meaning and intention of the specifications, and whether any and what allowance shall be made to the company in respect of any work or obligation to be performed under the contract and from the performance of which the contractor may be or become directly or consequently relived by reasons of any such additional or substituted works.

**16. SUSPENSION OF WORK:**

The Contractor(s) shall suspend the execution of work or any part or parts thereof whenever called upon in writing by the Chief Engineer to do so and shall not resume work thereon until so directed in writing by the Chief Engineer. The Contractor will be allowed by the Chief Engineer an Extension of time (not less than the period of suspension) for completion of the item or group of items of work for which a separate period of completion is given in the contract and of which the suspended work forms part but not other claims in this respect for completion or otherwise, however, shall be admitted. The contractors shall have no claim to any payment of compensation or otherwise, whatsoever on account of suspension of work.

**17. WORKS TO BE EXECUTED IN APPROVED MANNER:**

The works, the subject of the contract, specified and provided for or that they may be necessary to be done to form and complete any part thereof, shall be executed and completed in the best substantial manner, with materials of the best and most approved quality of their respective kinds agreeable to the particulars contained in or implied by the specification or as referred to and represented by the drawings and memoranda thereon or as referred to by any of the said further drawings and memoranda thereon or as referred to by any of the said further drawings, instructions and directions and shall be to the full satisfaction of the Engineer in charge ,. The Engineer in charge, shall have full liberty at all reasonable time to inspect and examine the works, materials and workmanship, and may every such time reject any or all of such works, materials and workmanship which to him/them or either of them may appear defective, unfit or improper for the several purposes to which they are applied, or intended to be applied, or as not in accordance with the specification or the said drawings, memoranda, instruction or directions respectively.

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**18. WORK TO BE CARRIED ON WITH EXPEDITION FAILING WHICH THE COMPANY MAY EMPLOY OTHER CONTRACTOR WITHOUT VITIATING THE CONTRACT:**

The Contractor shall commence to carry on the works with due diligence, and as such expedition as the Engineer in charge, may reasonably expect, having regard to the specified time of completion of the whole of the works. In case the contractor fails to do so, or neglect to provide proper and sufficient materials, or to employ a sufficient number of workmen to execute the work, then the company shall have full power, without vitiating the contract, to take the works wholly or in part out the hands of the contractor to engage or employ any other person or workmen to procure all requisite materials and implements for the due execution and completion of the said works, and the cost and charges incurred by the company in so doing shall be ascertained by the Chief Engineer and be paid for or allowed to the company by the contractor and it shall be competent for the Company to deduct the amount of such costs and charges along with overheads out of any sum or sums due or to become due from the company to the contractor under this or any other contract.

**19. INFERIOR MATERIALS OR WORKMANSHIP TO BE AMENDED:**

The materials as well as the workmanship and finish of the whole of the contract works shall be best of their kind and should any materials be brought upon the site of works or on any land or property of the company or on the places where the operations are being carried out in connection with the works, which in the judgment of the Engineer in charge, is of an inferior description and improper to be used in works, the said materials shall be removed. All inferior workmanship or finish shall be amended by and at the cost of the contractor forthwith, or within such period or periods as the Engineer in charge, may direct, and the contractor shall pull down, amend and reconstruct any work he may have erected upon an insecure or insufficient foundation or that he may have insufficiently secured and protected against immediate and future injuries, whether arising or likely to arise in future from weight, pressure action of water or otherwise, on being required to do so by the Engineer in charge. In case the contractor neglects or refuses to remove such materials or comply with such directions it shall be lawful for the Chief Engineer, on behalf of the company and by its agents, servants and workmen to remove the materials and amend the workmanship and finish, so objected, to, or any part thereof, and to replace the same with such other materials, workmanship and finish as shall be satisfactory to the company and on the certificate of the Chief Engineer to deduct the expense thereby incurred, or to which the company may be put or be liable or which may be incidental thereto, from the amount of any sum or sums due to or become due to contractor, or to recover the same by action at law or otherwise from the contractor as the company may determine.

When it is apparent to the Chief Engineer that defects exists in the work, or that damage or accident has occurred to the works, or that the works are not upheld or maintained in good sound and water tight conditions, or repair or in working order, but the cause thereof is not apparent, a general requisition in writing by the Chief Engineer to the contractor to amend, make good or maintain the works in sound, perfect and water tight conditions shall be under



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no obligation to specify the work or repair, but such requisition shall be conclusive evidence against the contractor that he is not performing his obligations under the contract.

**20. EMERGENCY POWERS:**

In the event of any accident or failure occurring in or on the works, which, in the opinion of the Chief Engineer requires immediate attention either during construction or during the period of maintenance the company may by their own or other workmen make necessary repairs at the expenses of the contractor.

**21. OPENING TO BE MADE FOR EXAMINATION OF WORKS:**

Should Engineer-in-charge require it for their more perfect satisfaction, the contractor shall at any period during the continuance of the contract, pull down any part of the work and make such openings, as to such extent through any part of the said work as the Engineer-in-charge, may direct and the contractor shall make such works good again to his or their satisfaction. Should the work be found faulty in any respect, the whole of the expenses thereby incurred shall be defrayed by the contractor but if otherwise by the company.

**22. PRECAUTIONS AGAINST INJURY TO PROPERTY ADJACENT TO THE WORK IN PROGRESS:**

The contractor shall take special care, by the erection of temporary fences and by every other means which circumstances may render necessary, to prevent all injury and damage to or trespass upon the lands, roads, fences or property adjacent to the site of works and shall confine the passage of his workmen to existing public roads, foot paths. He shall likewise pay and satisfy all claims whatsoever and from whomsoever, for temporary occupation, way-leaves, damages, the trespass or otherwise, in reference to the said lands, roads, fences and property adjacent and bear the company harmless from any and all such claims. If any greater extent of land than the site of work be required by the contractor for his operations, he shall obtain and occupy the same at his own cost and charge.

**23. PRECAUTIONS AGAINST ACCIDENTS OR INJURY:**

The Contractor shall, at his own expense, shore, sling, protect, support, alter, restore make good and maintain as may be necessary, all buildings, water and gas pipes, sewers, drains, electric cables and other things which may be disturbed, exposed or injured during the execution of works or in consequence of the execution of the works and shall also provide any extra timbering which may be temporarily required and all labour in fixing and removing the same and shall, at his own expenses provide for the continuous use of all buildings, pipes, sewers, drains electric cable, water sources and other things, the use of which may be liable to interruption during the progress of the work. The Contractor shall at his own expense restore all such buildings, water and gas pipes, sewers, drains, electric cables and other things to the satisfaction of the owners thereof and he shall likewise, at his own expense, construct and maintain such works as may be necessary for the due permanent support of all such buildings, pipe, sewers, drains, electric cables and other things met with in the construction of works,

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and shall indemnify, save, harmless and keep indemnified, the Company and its officers from and against all action, suits, claims, penalties, liabilities, cost, expenses and demands whatsoever, by reasons or on account of damage to such buildings, pipes, sewers, drains, electric cables and other things whether caused by the execution of the contract works or in the insufficiency of the aforesaid permanent support. The Company may deduct the expenses thereby incurred or to which the Company or its Officers may thereby be put or be liable or which may be incidental thereto from, the amount of any sum or sums due or to become due to the contractor or may recover the same by action at law or otherwise from the contractor and the Company may compromise any such action suits or other proceedings, or such terms as it shall see fit and contractor shall thereupon forthwith pay the Company the sum or sums paid by the Company upon the occasion thereof, and shall in every case pay such sum or sums as shall fully indemnify the Company according to the present stipulation.

**24. COVERING OF CONSTRUCTION SITE:**

The Contractor shall, at his own expense, make arrangements to cover/wrap the construction site in mesh material of green color to prevent the dust from the escaping into the adjoining Properties or premises and atmosphere and also to prevent accidental fall of debris onto the people. The contractor at his own expense should make arrangements to remove the cover after completion of the work.

**25. ROYALTIES:**

The Contractor shall be liable to pay all royalties chargeable on Government or Company materials required for the work.

**26. REJECTED MATERIALS:**

All rejected materials will at once be removed from site by the contractor to such distance as may be desired, failing which the company after giving three days' notice in writing may do so and recover the cost of removal from the contractor.

**27. COMPANY'S PLANT:**

No Company's plant, materials or Labour will ordinarily be lent or hired to the contractor. Exceptional cases must have the approval of the company in writing.

**28. SCOPE OF COMPLETION:**

Completion includes completion of all work in accordance with the plans and specifications, removal of all yard mess accumulated during construction, levelling and cleaning up the site and generally cleaning the whole building or works.

**29. FINAL MEASUREMENTS TIME:**

The final measurement must invariably be preceded by a thorough remeasurement of the whole of the work, performed which will be made by the company's authorized representative



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and at which the contractor or his accredited agent must be present. For this purpose, a written notice will be sent to him at least THREE DAYS before the date fixed for the measurements, appointing the day, hour and place of meeting. Should he not attend to this the measurements will proceed without him, and he will be precluded from making any protest.

30. If a dispute arises between the company and contractor as to the quantity or quality of work, performed, involving sum larger than Rs.500.00, the contractor may appeal in writing to the company for remeasurement or reappraisal, as the case may be. If the company considers that Contractors claim is valid, they may appoint an officer, other than the Officer who made the final measurement and inspection vide Paragraph-28 above, and his report shall be considered as final and binding on the contractor. The Contractor shall have a representative present when the remeasurement or the appraisal is being made.

31. **ATTENTION:**

- a) Time will be the essence of the contract and the contractor is to complete the whole of the work in the time stated in the tender, subject to the schedule of conditions.
- b) The contractor is to provide at all times during the progress of work and the maintenance period proper means of access, with ladders, gangways, etc., and the necessary attendance to move and adopt as directed for the inspection of their representative (no separate rate will be allowed).
- c) The Contractor is to keep all persons under his control and within the boundaries of the site and he will be held responsible for the care of the works generally until their completion including all works executed and materials deposited in the sites by himself or suppliers, together with all risks arising from weather, carelessness of operatives, damages or loss by thefts or by any other cause, and is to allow for all necessary watching and protective lighting.

32. **LABOUR ACTS:**

- a) The Contractors shall employ labour in sufficient number to achieve the required rates of progress and quality to ensure best workmanship of the degree required under various specifications and to the satisfaction of Engineer-in-charge. The contractors shall remain liable for the payment of all wages or other remunerations to his labourers or employees under the Payment of Wages Act 1936, Minimum Wages Act 1948, Employers liability Act 1938, Workmen's Compensation Act 1923, ESI Act 1948, The Building & other Construction Workers Act, 1996, The Inter-State Migrant Workmen (Regulation Of Employment And Conditions Of Service) Act, 1979 or any other Acts or enactments relating thereto and rules framed there under from time to time. In the event, the contractor fails or neglects to pay any amount due by him under the workman's compensation Act, ESI Act or other Labour Laws, the Company is entitled to withhold the same from any other amount payable by it to the contractor and remit the same to the authority concerned and such payment shall be binding on the contractor.

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- b) In the event of contract, the contractor shall be responsible for implementing the provision of the contractor Labour Act in to and also responsible for any repercussions arising there from for non-compliance thereof.
- c) The intending tenderers should quote their organization registration/code numbers for the registration with ESI/PF Authorities. It may be noted that other things being equal, preference will be given in the acceptance of tender to firms having independent registration with ESI/PF Authorities.
- d) BEML shall arrange to recover from the contractors bills requisite amounts of both Employer's and Employee's contribution for both ESI and PF calculated on the basis of 25% of the value being taken as the labour cost and recover such amounts from the respective bills and keep the same in suspense account. On production of requisite documentary evidence supporting payment of ESI/PF Authorities/supported by the acquaintance rills, the amount earlier recovered from contractor's bills shall be paid duly adjusting the shortfall in remittance, if any.
- e) In the event of any accident/injury/disablement, the contractor shall arrange to pay the requisite compensation legally payable to the concerned employee/dependents and also indemnify to BEML in case of any claim arising therefore later.
- f) CONTRACTOR should employ only ESI Registered workmen on any item of work. If contractors have workman who have not yet been Registered under the ESI they should ensure that the workers have been duly registered before employing them in work.
- g) CONTRACTORS should produce his MUSTER ROLL duly certified by Engineer-in-charge once in a month say before 5th of each month to the Pay roll section, so that the ESI amount can be ascertained and recovered/payment obtained irrespective of the fact whether work order is issued or not.
- h) If there is any default on the part of the contractor, an estimated amount towards ESI liability including the would-be penalty/damage, will be recovered by the company from the bills of the contractors.
- i) CONTRACTORS should maintain all registers and records required for ESI, PF Payment of wages, etc., under the statutes and produce them for verification as and when called for by company inspecting Authorities.
- j) THE contractor shall disperse the wages to the workmen in the presence of the authorized representative of the company.
- k) CONTRACT Labour (Regulation and Abolition) Act 1970 under section 12 and Rule 21 prescribes that every contractor who employs labour for executing contract works should obtain license from Labour Authorities to carry out any works contract, so that the labourers employed by the contractor are not deprived of the facilities provided under the Act. Such license shall be produced to BEML Authority before commencement of the work.

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**33. TRAINING APPRENTICES:**

The CONTRACTOR shall comply with the provision of the Apprentices Act 1961 and the rules and order issued there under from time to time. If he fails to do so his failure will be a breach of contract and the Accepting Officer may in his discretion cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provision of the Act.

**34. FAIR WAGES:**

The Contractor shall not pay less than fair wage to labourers, workmen engaged by him on the work. Fair wages means wage for the various categories of labour, workmen, fixed from time to time by the labour authorities of the area. The contractor shall ascertain the minimum fair wages prevailing in the area before submitting his tender. The Contractor should also abide by labour regulations in regard to the payment of wages, wage period, fines and deductions from wages, maintenance of wage book, wage slip, publication of scales of wage and other terms of employment, inspection and submission of periodical returns and all other matter relating to labour rule in force.

**35. DISPUTE RESOLUTION AND JURISDICTION:**

All disputes or differences whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of the contract or the breach thereof arising during the progress of work or after completion or abandonment thereof shall be mutually discussed and settled amicably by conciliation Committees/ Councils comprising of independent subject experts constituted by BEML, failing which, the dispute shall be settled by arbitration consisting of sole arbitrator appointed by the Company in accordance with the provisions of Arbitration and Conciliation Act 1996 and the arbitration proceedings shall be conducted at Bengaluru.

The court at Bengaluru only shall have jurisdiction to entertain any dispute/matter relating to the contract. In case of any dispute between the Company and any other Public Sector / Government department relating to the interpretation and application of the provisions of the contract, such disputes / differences shall be referred by either party to the arbitration of one of the arbitrators in the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 and amendment thereof shall not be applicable to this clause. Any party aggrieved by such award, shall make further reference to the Ministry of Law and Justice, Government of India.

In case BEML challenges the Arbitral Award passed against it, 75% of the award may be paid to the contractor / concessionaire against Bank Guarantee without prejudice to the final order of the Court in the matter under challenge. The payment may be made into a designated Escrow Account with the stipulation that the amount so released will be used, first, for payment of lenders' dues, second, for completion of the project and then for completion of other projects of BEML, as mutually agreed / decided. Any balance remaining in the Escrow

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Account subsequent to settlement of lenders' dues and completion of projects of BEML, may be allowed to be used by the contractor / concessionaire with the prior approval of the lead banker and BEML.

In case the subsequent court order required refund of the money paid by BEML to the contractor / concessionaire against Bank Guarantee, the amount shall be refunded by the contractor / concessionaire along with appropriate interest. The rate of interest on such refund amount shall be decided by BEML keeping in view the cost of capital to BEML or the rate of interest provided for in the Contract Agreement or the rate of interest awarded under the Arbitral Award under challenge

General conditions stated under Clause 1 to 35 are fully read and are acceptable to me/us.:

DATE:

SIGNATURE OF THE CONTRACTOR 'S

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**05. SPECIAL CONDITIONS:**

1. The tender shall remain open for acceptance for a period of 180 days from the date on which the tenders are due to be submitted.
2. The contractor shall visit the site to acquaint himself with site conditions and study the drawings and specifications in detail prior to tendering, and no claims will be entertained later on the ground of ignorance or otherwise of the conditions under which the work shall have to be executed.
3. The contractor shall either himself supervise the execution of the contract or shall appoint competent and experienced engineers on his own for supervision of the work. Where the contractor is not a qualified engineer or even if he is so qualified but in the opinion of the accepting authority, cannot give full attention to the works, the contractor shall at his own expense employ adequate Engineers, as indicated in manpower deployment schedule, to supervise the work and to receive instructions from the Engineer-in-charge. The employment of engineers as aforesaid shall be with the approval of the Engineer-in-charge who may verify the qualifications/experience required for timely completion of work.
4. The setting of the building shall be done by the contractor himself. All measurements shall comply with the dimensions noted on the drawings. The contractor shall construct center line pillars and Bench Marks wherever necessary at his own cost and the setting out shall be got checked, approved and certified by the Engineer-in-charge before execution of the work.
5. Foundations shall generally conform to the dimension indicated on the drawings, unless the nature of soil after excavation examined by the Engineer-in-charge of works necessitates modifications. The foundation trenches for RCC columns and walls after excavation indicated on the drawing shall be got inspected, approved and certificated by the Engineer-in-charge of works before laying concrete.
6. Provision shall be made during the progress of work for embedding Electric conduits etc., wherever necessary as directed. Openings shall be left for service lines, machine foundations, as required and as per instructions of the Engineer-in-charge.
7. Care shall be taken in execution of work not to damage service lines etc., coming in the way of construction. If any damage is caused in the lines, the cost of replacing or repairs shall be borne by the contractor.
8. CONTRACTOR(S) shall provide himself/themselves with requisite number of welding sets, mixers with hoppers, vibrators builders hoist, Tools, meters and testing equipment's, transport vehicles, etc., required for the complete satisfactory execution of work.
9. **WATER:** Contractor shall use water from nearest place of availability. Contractor shall make necessary arrangement for the using and storage of the water for the curing and other related work. However, Non-availability water will not be a reason for delay in work. Contractor shall not waste the water and shall use judiciously.

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10. **POWER SUPPLY TO THE CONTRACTORS:**

Contractor shall use Power supply from nearest place of availability. However, the Contractor shall make his own arrangement for drawing the power supply with suitable safety precaution for the work. However, Non availability of power will not be a reason for delay in work. Contractor shall not waste the power and shall use judiciously.

11. **Submittals and Cost of Tests:**

On commencement of the Project, the Contractor shall submit the following to the Engineer in Charge:-

Detailed Baseline Programme stating the various activities along and the time for completion of each activities. Results of any tests, as and when conducted and as required by the Engineer in Charge. All tests shall be carried out at the contractor's cost

12. **MATERIAL AND WORK MANSHIP: GENERAL**

a) This Materials and Workmanship Specification for Track work shall be read in conjunction with all the documents forming part of the Contract.

b) No Permanent Works shall be carried out until all methods and materials have been approved by the Engineer in charge.

c) Unless noted otherwise in the Contract, all components and materials shall be handled, transported and stored, in accordance with the manufacturer's recommendations with prior approval of Engineer.

d) The test results of each test to be carried out as per Employer's requirement shall be recorded and submitted in a format approved by the Engineer and shall include graphical presentation of results as well as numerical base data wherever required.

e) All drawings, records, reports, documents, Performa etc. shall be submitted in both hard copy and electronic copy.

f) Work and Workmanship Guarantee Compliance of entire Provisions is obligatory to Contractor

g) The record of principal raw material supplied by the contractor will be maintained by Civil Department (for example cement register) and same will be concurred by Material Gate In charge.

h) The Engineer In charge will certify the rational utilization of the principal utilization.

13. **SURVEY INSTRUMENTS**

a) Survey instruments like Total station, Dumpy level etc used and the methodology adopted shall be appropriate to the intended measurement task and accuracy specifications. Test measurements and instrument calibration shall be carried under local field conditions.

b) It is essential that before starting any initial surveys and at frequent intervals all measuring equipment should be tested for their accuracy.

c) All instruments deployed in the Contract shall be in good condition and properly calibrated.



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d) Calibration certificates and/or statements of services by local authorized instrument agents of not more than six months shall be the proof that the instruments are in good service conditions.

e) Notwithstanding the above, instruments shall again be checked to ensure good condition before the Contractor proceeds to carry out a critical survey task. Any error causing superfluous work will have to be rectified by the contractor at his own cost.

14. **SPECIAL INSTRUCTION.**

It is essential that before starting necessary precautionary measurements to be taken of construction of temporary barricade as it involves high security concern, and necessary security persons to be engaged before dismantling of existing fencing.

All construction materials used in the contract shall be get approved from concerned engineer in charge.

15. **TAXES:**

WHATEVER Taxes and duties, as applicable, chargeable in respect of this contract whether by the Central or State Government shall be borne by the contractor(s) and the price quoted shall be inclusive of such taxes, cess or any other statutory duties or taxes payable by them and price quoted shall be firm and shall be inclusive of such duties and taxes. WHEREVER Taxes are deductible at source, the company will recover the amount as per the statutory requirement.

16. THE Contractor shall agree to execute the work progressively in co-ordination with the concerned officers or shop supervisors and as directed by Engineer-in-charge.

17. THE specifications contained in the MES Schedule (referred to in the tender) in appropriate sections shall apply to this contract to the extent applicable, cement co-efficient shall also form part of MES Schedule.

18. **VALUATION OF DEVIATIONS:**

Every deviation shall be subject to the limits specified as under:

- a) The net value of all deviations (additions and deductions) including non-tendered items, of the value of work completed, shall not exceed 20% of the approved contract value and 40% in respect of any individual item, indicated in Schedule A-BOQ
- b) In case of non-tendered items, the total value of such non-tendered items shall not exceed 5% of the approved contract value.

The basis for ascertaining the non-tendered items shall be as follows:

- a) The value of all deviations shall be ascertained by measurements, on the basis of the rates or prices for similar work in the bill of quantities of the same contract in so far as such rates or prices apply.

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- b) Where the rates or prices in Bill of Quantities do not apply, the value shall be based upon rates or prices deduced there from to the extent practicable to do so.
- c) The rates for NT items shall be based on the MES SSR rates after proportionate adjustment in comparison with the tendered rates of like items in the contract. The basis to be adopted for working out the NT rate is the comparison of the NT item with similar trade item in the bill of Quantity for which the contractor has quoted.
- d) wherever NT items cannot be deduced from the like items quoted in the tender or SSR rates, market rate shall be allowed based on vouchers/invoices as per the actual including transportation, labour etc., plus 10% overheads and the labour rate shall be taken as per minimum wages inforce, based on the recommendations of the Chief Engineer.
- e) As a last resort a tender shall be floated to ascertain the rate for NT items. All Deviations in contracts for works including non-tendered items shall be approved by the Competent Authority as per DoP within the limits prescribed in the contract. The deviations and NT items shall be technically checked and processed by the respective "Engineer-in-charge " in concurrence with Finance Department of the respective division.

19. **PROVISION OF FITTING/FIXTURES OF DIFFERENT MAKE:**

The contractor shall provide the same make of fittings/fixtures specified in the tender documents unless he has quoted for other equivalent for genuine reasons. In case due to exigency of the work and difficult market conditions, the contractor is not able to provide the same make, he shall be allowed to provide equivalent approved make subject to his obtaining the concurrence of the Chief Engineer for the price adjustment as between the quotation and the purchase price for the item involved. The base for reckoning shall be the date of purchase. The contractor shall produce purchase invoice as a proof of expenditure for the items other than those specified in the tender documents allowed for incorporation in the work. Construction Department in respective Divisions/Regional/District Offices shall ensure the reasonableness of the rate in the purchase bill produced by the contractor. The price adjustment shall be the difference between the two makes on the date of purchase.

20. The Company reserves the right to accept the tender in parts i.e. on the basis of lowest quotation in each part or as a whole, at its own discretion and hence it is important that the tenders take sufficient care and quote reasonable rates in each part, so that if one part only is separated and entrusted to one Contractor he should be able to do it without difficulty. The rates quoted for similar items should be consistent. THE company also reserves the right to accept the lowest or any other tender at its discretion without assigning any reasons whatsoever.



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21. **EXTENSION OF TIME:**

Time is the essence of the contract. The contractor is bound to complete the work within the stipulated time. The Chief Engineer has to assess the delay arising out of default of the contractor. Where the delay is due to default of the contractor, and if there is no financial loss due to such delay, the Chief Engineer can recommend for grant of extension of time by the same authority who accepted the tender/awarded the contract, subject to recording the reasons for granting such extension of time.

Where the delay is due to default of the contractor, and if there is a financial loss due to such delay, the extension of time requires the approval of Competent Authority. In the absence of Competent Authority approval, Liquidated Damages for delay in completion of the work shall become enforceable.

Where the delay is not due to default of the contractor, for example: - a) not providing clear work front to the contractor by the Company, b) Company's delay in decision making for changes relating to original work., etc necessary extension of time shall be granted with the approval of Competent Authority, as per DoP without sanctioning escalation claimed by the contractor except statutory levies.

Extension of time when granted with the approval of the Competent Authority as per Company's Delegation of Powers shall have the effect of rendering the clause Liquidated Damages for delay in completion work' inoperative upto the period of extension of time so granted unless otherwise specifically stated.

22. **LIQUIDATED DAMAGES FOR DELAY IN COMPLETION OF WORKS**

In case the Contractor fails to complete the works and clear the site on or before the stipulated time mentioned in the Work order he shall without prejudice to any other right or remedy of the Company in this behalf pay, as agreed Liquidated Damages and not as penalty, pay sum equal to 0.5% of the Contract sum (excluding non-tendered/extra items, if any) for every week's delay subject to maximum of 10% of the total final bill value of the Contract.

Liquidated Damages shall be applicable in the following cases:

- a) where the contractor fails to complete the work within the stipulated time;
- b) where the extension of time is granted with levy of LD;
- c) Where extension of time is granted without levy of LD but the contractor has failed to complete the work within the extended period.

The amount of Liquidated Damages shall be adjusted or set off against any sum payable to the contractor under this or any other contract/s awarded by the Company.

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In case where the contract is subjected to levy of LD, the Chief Engineer shall be the authorized person to issue 'Work Completion Certificate', which shall be final and binding the Company as well as the Contractor concerned.

23. **FORE-CLOSURE OF CONTRACT:**

It shall be noted that at any time after acceptance of the tender, the Company can decide to abandon or reduce the scope of work for any reason whatsoever, the Chief Engineer shall give notice in writing to that effect to the contractor. The compensation, if any, payable for such foreclosure of work shall be discussed mutually between the Company and the contractor and settled after taking into consideration the loss suffered by the contractor on account of foreclosure of the contract. The contractor shall have no claim for any compensation whatsoever on account of any profit or advantage which he might have derived consequent to foreclosure of the whole or part of the works. The Company shall have the option to take over the contractor's materials or any part thereof, either brought to the site. The amount of compensation payable to the contractor due to foreclosure shall be decided by the authority one level above the level of the authority competent to award the contract, or by the CMD.

24. BEML revised General Conditions together with BEML specifications will form part of the contract. Should there be any discrepancy between the provision in the Bill of quantities and drawings, the former shall be deemed to take precedence there over.

25. No modification or change of specifications in the bill of quantities shall normally be accepted and such changes are to be rejected. Acceptance of such deviations shall be at the discretion of the Engineer-in-charge.

26. **EARNEST MONEY DEPOSIT:**

TENDERES should submit their tender accompanied by EMD of value indicated in the tender. It should be paid in online mode and proof submitted in SRM. Tender without Earnest money deposit will be rejected. On finalization of the tender, Earnest money deposit will be refunded to unsuccessful tenderers under proper acknowledgement.

In case, the contractor/firm after quoting, withdraws from the tender or refuse/delay in commencing the work or stop the work abruptly, their EMD/ SD, as the case may be, will be forfeited. No interest amount is payable on EMD.

27. **SECURITY DEPOSIT:**

The successful tenderer shall be required to furnish security deposit for the fulfillment of contract and amount shall be 10% of the value of the contract exclusive of Taxes, to be paid by the contractor. No waiver can be allowed in this regard. Such security deposit shall not entail any interest payment on refund.

The contractor shall choose any one of the following options for payment of security deposit in writing as under:

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- a) The contractor shall within 30 days of acceptance of the contract deposit the difference between Earnest Money and full Security Deposit by Demand Draft/Banker's cheque drawn on any of the commercial bank made in favour of Company. PEMD held with BEML cannot be considered for such adjustment in the Security Deposit payable by the contractor.
- b) Bank guarantee from any commercial bank equivalent to the amount of security deposit valid for a period required by BEML shall also be accepted.
- c) Security Deposit amount shall be deducted from the running bills of the contractor at the rate of 10% or higher of the gross value of each bill. However, the entire security deposit amount shall be deducted before completion of 90% of work.

The above deposit shall be held by the Company as security for the satisfactory performance of the contract. All compensations or other sums or money payable by the contractor to the Company under the terms and conditions of this contract shall be deducted from this security deposit or from any other sums that shall be due, or shall become due to the contractor by the Company on any account whatsoever and in the event of the security deposit being reduced by reasons of any such deductions the contractor shall within ten days thereafter make good these deductions.

#### **28.1 REFUND OF SECURITY DEPOSIT**

The above deposit, as the name itself signifies, shall be held as Security for performance of the contract. One half of the Security Deposit i.e. 50% shall be refunded to the contractor on completion of the contract based on the recommendations of the Chief Engineer in writing that the work has been physically completed in all respects.

The balance 50% of the security deposit shall be refunded to the contractor on written demand from the contractor after the expiry of the DEFECT LIABILITY PERIOD or on payment of final bill whichever is later, with the recommendation of the Chief Engineer, provided the Chief Engineer is satisfied that there are no dues outstanding against the contractor.

If the Security Deposit is in the form of Bank Guarantee, on completion of the contract, the BG already with BEML will be returned to the contractor. The contractor has to then submit a fresh Bank Guarantee for 50% of the security deposit value valid for a period of 1 year from the actual date of completion of the entire contract shall be deposited by the contractor.

Any refund of security deposit shall be made only with the recommendation of the Chief Engineer.

#### **28. RUNNING ACCOUNT REMITTANCE: (RAR)**

During the progress of work, contractor shall submit the claims giving complete details of work done, rate and value to the Engineer-in-charge, nominated by Chief Engineer who shall certify the rate and quantity as per the MB and prepare a statement showing the description and quantity for which he recommends payment. These claims are called RAR bills and RAR

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payments are made once in a calendar month or more depending upon the periodicity of contract/progress of work.

Where the RAR payment is based on the measurements recorded in the MB, the recommendation for payment shall be stage-wise co-related with the bill of quantities.

Due to technical reasons, where pro-rata payments on stage-wise progress of work is considered necessary though not specified in the contract, the Chief Engineer with the approval of competent authority, shall decide the number/type of stages correlating with the bill of quantities and submit a statement showing the stage-wise break-up of the contract value indicating work progress details including percentage of completion, cost, and remarks, if any, of the Engineer-in-charge with a copy to Accounts in the respective Division for regulating the quantity and payment. This shall form the basis for the Engineer-in-charge to prepare a bill for actual progress of work. The basis as decided above shall uniformly be adopted for regulating all RAR payments till the final bill is submitted.

However, in respect of hidden works, recording of measurements in MB shall invariably be made then and there and the MB produced to Accounts at the time of RAR payment.

Accounts shall arrange payment for RAR bills within a fortnight's time from the date of receipt based on the certification of the Engineer-in-charge and after necessary check/verification.

As per Expenditure Management Commission, Government of India, in large projects above Rs.10.0 Crore, 50% of running bill amount shall be released within 7 days of submission without a detailed check on the claim. The balance shall be released after the claim is scrutinized as per procedure in order to get more competitive bids and for speedy execution as cash flow is a critical requirement in a project.

The contractor shall also be paid 'Material Advance' for the material brought to site for incorporation in the work duly certified by the Engineer-in-charge. For such materials brought inside by the contractor, the contractor has to produce necessary test certificates from reputed Testing Laboratories for steel and hypothecation deed duly executed by the contractor in favour of the Company on a non-judicial stamp paper of requisite value.

Payment of 'Material Advance' shall be recommended by the Engineer-in-charge for materials required to be used in the works as per the planned progress of work. However, payment of material advance against materials brought to site by the contractor ahead of scheduled progress of work shall be considered not exceeding 75% of the value of such material in exceptional cases with the approval of Competent Authority, with justification recorded in writing.

RAR payments shall be regulated to the extent of the value of work done, with due adjustments for recoveries and other payments (including material advance/adhoc payments made if any) effected so far against the contract.

29. **PRE FINAL RARs**

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Pre-final RAR is raised only when the work is completed and the complete measurement is recorded in the MBs by the Engineer-in-charge designated by Chief Engineer duly accepted by the contractor.

Pre-final RAR shall be sent to the Accounts Department by the Engineer-in-charge Only after Technical check of the measurements and endorsement in the MBs by the Chief Engineer.

The Engineer-in-charge, shall recommend for payment not exceeding 90% of the value of work completed with due adjustments for recoveries and RAR payments (including Material advance if any) effected so far against the contract.

Such bills shall be paid within 2 weeks from the date of their receipt in the Finance Department after scrutiny and check for the correctness of the bill duly linking up with the MBs.

The recommendation of Pre-final RAR is based on the discretion of the Chief Engineer on case to case basis.

30. **ADHOC PAYMENTS:**

If payment for final bill could not be arranged within 5 months from the date of the completion of the contract for genuine reasons other than undue delay in submitting the final bill by the contractor, an Adhoc payment not exceeding 90% of the value of the work done after making all necessary deductions for statutory dues, RAR payments, Material advances if any paid, shall be recommended by the Chief Engineer with the approval of respective Complex chief/ respective Business Group Director. Such Adhoc payment can be recommended only if the contractor is having concurrent running contracts in the Complex.

The following guide-lines shall be adopted while making such adhoc payment;

- a) Such payment shall not exceed 90% of the final bill value.
- b) All conditions of contract and recoveries to be effected shall be taken care before effecting Adhoc payment.
- c) If a contractor has no other contract concurrently running in the Complex, adhoc payment need not be made. Instead, final bill shall be expedited and paid atleast within six months from the date of completion of the contract.

31. **COMPLETION CERTIFICATE:**

As soon as the Contractor completes the work assigned to him the same shall be inspected and if found satisfactory shall be taken over by the Chief Engineer. A "Completion Certificate" shall be issued to the contractor within 30 days from the date the contractor has given request for the same. If there are minor defects which can be rectified even after the building has been taken over, the defects shall be listed out and the contractor shall be asked to rectify the same before the final bill is submitted. The final bill along with the completion certificate duly certified by the Engineer in charge, shall be submitted to Finance Department for payment. The completion certificate shall have the following details:

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- a) Particulars of the work and Contract Number,
- b) The date of work order to commence the work,
- c) Date of completion as per original contract agreement,
- d) Actual work done value.
- e) Extension of time if any, granted,
- f) Date on which contractor was required to complete the work,
- g) Actual date of completion and taking over by BEML.

32. **FINAL BILL:**

On completion of the work and the recording of measurements in the MBs, a final bill shall be submitted by the contractor. On receipt of the final bill duly signed by the contractor, the same shall be scrutinized by the Engineer-in-charge to see that the claim is in order.

The final bill prepared by the Department and accepted by the contractor, shall be accompanied with the following documents:

- Original Completion certificate
- No claim certificate duly signed by the contractor
- Original Contractor's All Risk Insurance Policy covering up to the actual date of completion of work.
- Contract Agreement
- Revised estimate as duly approved by Competent Authority.
- ESI & PF statement duly coordinated by Welfare Section.
- Measurement books duly technically checked by Engineer in charge.
- Any other documents which are specified by the Management from time to time.

The Engineer-in-charge has to certify in the work Completion certificate as well as in the Measurement Book, that the work is executed in conformity with the contract specification, drawings and other conditions. The final bill duly checked and coordinated by the Engineer-in-charge shall be sent to the Finance Department through Chief Engineer along with the documents stated above.

33. **DEFECT LIABILITY PERIOD:**

The period of maintenance for the subject work shall be **ONE YEAR**. During this period, the contractor shall be responsible to rectify all the defects noticed and attributable to the work done by him in respect of works executed by him. As soon as any defect in the work come to the notice, the Chief Engineer shall inform the contractor, in writing, to rectify the defect and inform him that in case he fails to do so within a reasonable time, the Company would rectify the defects at his risk and expense as per the conditions of the contract.

If the contractor does not attend to the rectifications in spite of repeated requests, the Company shall proceed at his risk and expense and get the work completed. The cost incurred by the Company shall be recovered from the defaulting contractor. The Company shall forfeit the balance 50% of the Security Deposit retained and adjust this amount against the expenses so incurred. The balance amount, if any, after recovering the expenses incurred shall be



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refunded to the contractor. In case the amount available is insufficient to cover the expenses in full, that portion of the expenditure still remaining unadjusted shall be recovered from any of the subsequent bills due for payment to the contractor against any other contract.

Even after such adjustments, the amount available is insufficient to cover the expenses in full, the Company reserves the right to take legal course of action to recover such unadjusted amount.

34. **CONTRACTORS LIABILITY AND INSURANCE:**

From commencement to completion of the works, the contractor shall take full responsibility taking precautions to prevent loss or damage. He shall be liable for any damage or loss that shall happen to the works or any part thereof.

In addition, the contractor shall indemnify and keep the Company indemnified against all losses and claims for injuries or damages to any person or any property whatsoever which shall arise out of or in consequence of the construction works. For this purpose, the contractor shall take an insurance policy-"**Contractors All Risks Insurance**"- to cover the risks, as per the Conditions of the Contract. The insurance policy has to be kept valid till the work is completed and the possession handed over to the Company. The policy shall be taken at his cost showing the Company as the 'principal' to simplify the work in the matter of raising claims and settlement thereof.

35. MATERIALS obtained from demolition/dismantling work shall remain with the Contractor at his own risk till such time the Contractor removes them to BEML stores or as directed within 10 days from the date of completion. If he fails to remove such dismantled materials to BEML stores or as directed within 10 days from the date of completion, the Engineer-in-charge will be entitled to remove them at the risk and cost of the Contractor.

THE various provisions in this special condition shall be deemed to take precedence over those in General conditions/specifications to the extent applicable.

Special Condition as stated in Clause 1 to 36 are fully read and are acceptable to me/us.

---

DATE:

SIGNATURE OF THE  
CONTRACTOR 'S

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**06.SAFETY CONDITIONS**

**1. General:**

The Contractor shall take all safety precautions / measures and ensure safety for the works, he has been contracted to execute. He shall follow all relevant safety codes of BEML/MES/CPWD and IS codes and safety manuals. The Contractor shall indemnify BEML from any consequences arising due to Contractor's failure in respect of safety measures. Some of the more important measures are listed below. The Contractor shall implement any further measures which may be required as per the safety codes of BEML /MES/CPWD/ IS codes etc. and the measures which the Engineer may call for during the execution of the work.

**2. Scaffolding:**

Suitable scaffolds shall be provided for workmen for all work that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra labourer shall be engaged for holding the ladder and suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1/4 to 1 (1/4 horizontal and 1 vertical).

**3. Guard Railing in Scaffolding / Staging / Platforms:**

Scaffolding or staging more than 3.25 meters above the ground floor or floor swung or suspended from an overhead support or erected with stationary support, shall have a guard rail properly attached, bolted, braced and otherwise secured at least 1 meter high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be so fastened as to prevent it from swaying from the building or structures.

**4. Working Platform / Gangway / Stairway:**

Working platform, gangways and stairways shall be so constructed that they do not sag unduly or unequally, and if height of a platform or gangway or stairways is more than 3.25 meters above ground level or floor level, it shall be closely boarded, have adequate width and be suitably fenced provided with guard rail as described in 2 above.

**5. Access to working platforms and other working places:**

Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 5 meters in length. Width between side rails in a rung ladder shall in no case be less than 30 cm. for ladders upto and including 3 meters in length. For longer ladders this width shall be increased at least 6 mm. for each additional 30 cm. of length. Uniform step spacing shall not exceed 30 cm.

**6. Hoisting Machines:**

Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following:



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Those shall be of good mechanical construction, sound material and adequate strength and free from patent defects and shall be kept in good repair and in good working order. Every rope used in hoisting or lowering materials or as a means or suspensions shall be of durable quality and adequate strength, and free from patent defects.

Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 shall be in charge of any hoisting machine including any scaffold winch or give signals to operator.

In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or lowering or as means of suspension, safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with safe working load. In case of hoisting machine having a variable safe working load, each safe working load and the condition under which it is applicable shall be clearly displayed on the machine prominently. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of the testing.

Motors gearing, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards; hoisting appliances shall be provided with such means as will reduce to the minimum, risk of accidental descent of load. Adequate precautions shall be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, working apparel such as gloves, sleeves and boots, as may be necessary shall be provided. Workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

Load tests: All cranes, hoisting machines etc. shall be load tested. Contractor shall submit test certificate from competent, authorized person before use.

**7. Demolition works:**

Before any demolition work is commenced and also during the process of the work:

- a. All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- b. No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by Contractor shall remain electrically charged.
- c. All practical steps shall be taken to prevent danger to persons employed, from risk or fire or explosion, or flooding. No floor, roof, or other part of a building shall be so overloaded with debris or materials as to render it unsafe.
- d. All blasting materials shall be stored and handled as per guidelines of relevant authorities.

**8. Barricades:**

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i. Contractor shall erect and maintain barricades required in connection with his operation to guard or protect:

- a. Excavation / Hoisting / Lifting areas
- b. Slab Openings
- c. Areas adjudged hazardous by Contractor's or Engineer's Inspection.
- d. Existing property subject to damage by Contractor's operations.

ii. Contractor's employees and those of his sub-Contractors shall become acquainted with BEML / Engineer's barricading practice and shall respect the provisions thereof.

**9. Net & Protective Platform:**

The Contractor shall provide and maintain a closely knitted PVC net all-round tall buildings throughout the construction period. This shall be strictly followed and work shall be permitted only when complied to satisfaction of the Engineer. If the above are not fully taken care of the Engineer reserves the right to get the same carried out through other agency at the risk and cost of the Contractor.

**10. Prevention of Fire and Protection:**

All combustible waste materials, wood scaling, soiled rags, etc. should be removed daily and burned in suitable areas.

Fire, welding, and flame cutting should not be permitted in combustible areas. Fires and open flame devices should not be left unattended.

Smoking should be prohibited in all flammable material storages, viz. carpentry, paint shops, garages, service stations, etc. "No Smoking" signs should be posted on all such areas.

Accumulation of flammable liquids on floor, walks, etc, should be prohibited. All spills of flammable liquids should be cleaned up immediately.

Flammable liquids, lubricants, etc. should be handled and transported in safety containers and drums which can be kept tightly capped.

Petrol or other flammable liquids with a flash point below 100 Deg F should not be used for cleaning purposes.

Oxygen cylinders should not be stored with combustible materials.

All electric installations should be properly earthed. Repairs should not be made on electrical circuits until the circuit has been de-energized.

Fire extinguishers and fire buckets, painted red, should be provided at all fire hazardous locations. Extinguishers should be inspected, serviced and maintained in accordance with manufacturer's instructions. The inspections should be evidenced by the notations on the tag attached to the extinguisher.

Handling of Hazardous materials shall be as per statutory regulation.

**11. Electrical Equipment:**

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All temporary and permanent electrical installations, power distribution and supply required for execution of Work shall be carried out conforming to existing industrial and domestic safety rules and regulations. Important specific points to be noted are as under:

Meter room and main switches should be freely accessible at all times and fully protected against all weathers.

Power distribution system shall be identifiable with display marking on switches.

All power distribution shall be carried out with coated, adequately, insulated and of appropriate current / load rating cables. It shall be securely routed for this purpose. No loose, naked, hanging wires shall be permitted.

Over load protection devices shall be installed whenever and wherever heavy current / load consuming construction or plant machinery susceptible to hazard is in use and as directed by the Engineer.

Metallic plugs and sockets shall be used in field work. Switch board shall be in close proximity so as to have quick control over the supply

Proper and adequate earthing connection to be provided for all installation, plant machinery and distribution system.

Hand lamps and inspection lamps shall be adequately insulated and guarded with wire mesh and will have proper plugs for use.

Security and illuminatory light shall be secured firmly and protected to withstand all weather.

**12. Protective equipment / gears:**

All necessary personal protective equipment as considered adequate by the BEML and the Engineer shall be available for use of the persons employed on the site and maintained in a condition suitable for immediate use; and the Contractor shall take adequate steps to ensure proper use of equipment by those concerned.

Workers employed on mixing cement concrete shall be provided with protective footwear and protective goggles, hand gloves of polythene type.

Those engaged in handling any material which is injurious to eyes shall be provided with protective goggles.

Those engaged in welding works shall be provided with welder's protective eye-shields.

The following safety equipment should be provided to workers as required and their use enforced. Rubber boots; hard toe protective safety boots; hard hats & helmets, safety belts; goggles for stone/concrete cutters., gas welding aprons, respirator shields, manila ropes and slings for life lines, gloves, flash lights, battery lamps, safety nets, boatswains chairs, helmets, life and ring buoys.

Items of personal wear should be maintained in serviceable condition and should before being reissued to other employees or returned to stores to be cleaned, sterilized, inspected and repaired, if necessary.

Loose and frayed clothing, hand rings, loose watch chains, etc. should not be worn around moving machinery or other sources of entanglement.

**13. Other Safety Measures:**

Every receptacle used for raising or lowering stones, bricks, tiles, slates, or other subjects should be enclosed, constructed or designed so as to prevent the accidental fall of such objects.

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All gears, tools, goods or loose material should be properly loaded into the bucket or receptacle in which they are being raised or lowered. If necessary, they should be properly secured or effective precautions should be taken to prevent their fall.

No timber or materials with projecting nails should be used in any work because they can be a source of danger to people.

Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The Contractor shall provide all necessary fencing and lights to protect public accidents and shall be bound to bear expenses of defence of every suit, action or other proceeding at law that may be brought by any person for injury sustained owing to neglects of the above precautions and to pay any damages and costs which may be awarded in any such suit, action or proceedings to any such person or which may with the consent of the Contractor be paid to compromise any claim by any such person.

**14. First Aid and Industrial Injuries:**

i. Contractor shall maintain first aid facilities for his workmen. First aid appliance including an adequate supply of sterilized dressings and sterilized cotton wool should be maintained in a readily accessible place. Appliances should be kept in good order and they should be placed under the charge of a responsible person who should be readily available during the working hours.

ii. Contractor shall make adequate arrangements for ambulance service and for treatment of injuries. Names of those providing these services shall be furnished to BEML prior to start of constructions and their telephone numbers shall be prominently posted in Contractor's field office.

iii. All critical industrial injuries shall be reported promptly to the ENGINEER - IN - CHARGE and a copy of Contractor's report covering each personnel injury requiring the attention of a physician shall be furnished to BEML.

**15. Maintenance:**

All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near places of work.

**16. Enforcement:**

To ensure effective enforcement of the rules and regulations relative to safety precautions, arrangements made by the Contractor shall be open to inspection by the Engineer or his representatives and the Inspecting Officers.

**17. Displays:**

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These safety provisions shall be brought to the notice of all concerned by display on a notice board at prominent places at the work spot. Persons responsible for ensuring compliance with the Safety Code shall be named therein by the Contractor.

**18 Work permits:**

Contractor shall take work permits from concerned departments of BEML as per requirements before commencement of the work everyday.

The contractor shall at his own cost and responsibilities follow all the safety rules and regulations and safety codes such as:

<b>IS codes (Latest Revisions)</b>	<b>As applicable to the relevant work</b>
3696 1987	Safety code for scaffolds and ladders.
4014 (part 2) -1986	Safety regulations for steel tubular scaffolding
3764 1966	Safety code for excavation work.
4081 1986	Safety code for blasting and related drilling operation.
4130 1976	Safety code of demolition of building.
4138-1977	Safety code for working in compressed air
4912-1978	Safety requirements for floor and wall openings, railings and toe board
7969-1975	Safety code for handling and storage of building materials
13415-1992	Safety code for protective barriers in and around the building
13416-(part 2) - 1992	Recommendations for preventive measures against hazards at workplace- fall prevention
5916 1970	Safety code for construction involving use of hot bituminous material.
7293 1974	Safety code for working with construction machinery.
8989 1978	Safety code for erection of concrete framed structure.
7205 – 1973	Safety code for Erection of Structural steel works

Safety Conditions as stated in Clause 1 to 18 are fully read and are acceptable to me/us.

DATE:

SIGNATURE OF THE CONTRACTOR 'S

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**07. SCOPE OF WORK:**

The scope work is **Expansion of Material Management Office & Furnishing of new store office at stores shed 2 with networking at BEML, Palakkad Complex.** as per details in the Bill of quantities (BOQ), Drawings, Specifications and following terms & conditions.

1. The Contractor shall carry out the work as per the specifications & quantities mentioned in the BOQ. Master layout with basic cross section details is enclosed (**Annexure-1**)
2. The contractor shall use materials as per the List of approved materials.
3. Execution of all works as per the drawing and approval of Engineer in charge.
4. The work is containing in 2 different locations inside the BEML premises. The firm has to plan accordingly to execute the work.
5. Material management office works includes removal of partitions, false ceiling, workstation rearrangement works and repair work.
6. Stores furnishing work includes interior finishing work.
7. Work in both offices shall be planned so that work doesn't affect regular functioning of office work.
8. Works affecting the functioning of office shall be taken in night and Holidays in coordination with user and maintenance department.
9. Drawings attached with this tender are tentative and Drawings for execution will be provided by BEML, before commencement of work.
10. The project site shall be properly protected from the other working area by providing barricade/ netting for suitable height as directed by Engineer in charge, for protecting from dust & debris.
11. Measurement records for the work carried out will be prepared jointly by the Contractor & Engineer in Charge and payment will be made only for the actual quantity of work executed as per the measurement record.
12. The contractor has to work in close co-ordination with BEML, carrying out the work without affecting the production activities and security of BEML.
13. The Supervisor or contractor must be present at the site to execute the work without fail and should communicate with BEML Engineer in charge regularly regarding the progress.
14. The firm has to work in holidays and in night for completion of work.



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**08. OTHER TERMS AND CONDITIONS:**

1. The Contractor/ Bidder can visit the site before submitting the quotation for inspection of site condition, measurement, assessment of work etc. Any dispute arising after release of order (if qualified) in future will not be entertained by BEML.
2. The Contractor/ Bidder have to engage sufficient manpower for the work.
3. The employees of the Contractor/ Bidder shall obtain necessary pass from Maintenance/ Security department by following BEML rules before commencement of work.
4. The Contractor/ Bidder have to bring necessary tools/ consumables/ equipment's etc. required for the work.
5. All the items supplied/ brought by the Contractor/ Bidder shall be entered in BEML main security gate by producing proper delivery challans/ documents as per the rules of BEML. The items shall be kept inside the factory in a place identified by BEML only during the course of work. The Contractor/ Bidder shall make his own arrangement for safe custody of his items and the firm will be the custodian of items brought by him. BEML is not responsible for any loss/ damage to Contractor/ Bidder's items.
6. After completion of work, the Contractor/ Bidder shall take back his own remaining/excess materials/equipment/ tools etc without any delay. BEML is not responsible for any loss/ damage of such items.
7. The maintenance/ consumables/ fuel for the equipment's/ machines/ vehicles brought by the Contractor/ Bidder are under the scope of the firm.
8. The Contractor/ Bidder shall depute one supervisor/ or his representative at site during the working hours as per the requirement.
9. The Contractor/ Bidder has to abide all the safety instructions given by BEML from commencement of work to end of work without fail.
10. The Contractor/ Bidder has to provide all the Personal Protective Equipment's (PPEs) related to safety to their employees. The Contractor/ Bidder shall be sole responsible for any type of accident occurs while executing the work. BEML shall no hold any responsibility for such accidents.
11. The Contractor/ Bidder have to carry out the work in concurrence with BEML and complete the work to the satisfaction of BEML. Work has to be carried out without disturbing the working atmosphere. No inconvenience should be caused to BEML in all respect.
12. From commencement to completion of the work the Contractor/ Bidder shall take full responsibility, taking precautions to prevent loss or damage to BEML property at related work site. The Contractor/ Bidder shall be liable for any damage or loss that may occur during the progress of work. It is the responsibility of the Contractor/ Bidder to make correction/ rectification/ providing new one of damaged property etc whichever is required as per the site condition, failing which the BEML will withheld the equivalent amount incurred for correction/ rectification/ providing new one from the bill of Contractor/ Bidder.
13. All the Workmen and staff deployed for the above works shall be covered with ESI & PF. The Contractor/ Bidder has to submit the proof of ESI & PF remittances along with the bill.

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14. The Contractor/ Bidder shall make its own arrangement for boarding & lodging for their employees.
15. The employees of the Contractor/ Bidder can avail the canteen facility if required during the working hours on actual chargeable basis as per the BEML rules.
16. The Contractor/ Bidder shall make his own arrangement for any lighting facility at site if required.
17. The Contractor/ Bidder shall make his own arrangement for all the amenities for the workmen of the firm.
18. The Contractor/ Bidder's employees shall be ready to work on Sundays/ Holidays if required as per the site conditions.
19. BEML will provide Water & Electricity at free of cost for the work at available points. The Contractor/ Bidder shall make his own arrangement for tapping of Water & Electricity at work site if required. The Contractor/ Bidder has to judiciously use the resources without wasting the same.
20. The loading/ unloading of the materials for the work at site is under the scope of the Contractor/ Bidder and shall carry out without affecting the man and material movement of BEML.
21. The Contractor/ Bidder shall take necessary work/ safety permits before commencement of work.
22. The Contractor/ Bidder's personnel shall not carry any objectionable material like explosives, cell phones, battery-operated instruments, weapons etc. knowingly or unknowingly inside the factory premises.
23. The employee of the Contractor/ Bidder shall follow general rules, regulations and disciplinary instructions of BEML.



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**09 TECHNICAL SPECIFICATIONS FOR INTERIOR WORKS**

**1. Workstations: 75 mm Connect Tile Based System**

- Connect 75 mm Tile based System with Height 1200 mm  
1st Module in Laminate Tile Finish per Workstation-1mm thick laminate from outside & 1mm balancing laminate on 3mm thick MDF.
- 2nd Module: Tiles Finishes of Soft Pin Up Tile, Fabric Tile-4mm thick MDF with PP & fabric wrapped on the tile & Marker Tile per Workstation-1mm thick Marker Laminate from outside & 1mm balancing laminate on 3mm thick MDF.
- Work Top in Prelaminated finish with ST. Edge Lipping of size 1500 x 1500 x 600 x 600 mm- Made of 25mm thick prelaminated particle board with 2mm lipping on all sides. All tables are provided with Metal Inserts for mounting the table top on the frames using the brackets. Thickness of the laminate 2mm.
- Gable Ends in Prelam finish- Made of 25mm thick prelaminated particle board. All tables are provided with Metal Inserts for mounting the table top on the frames using the brackets.
- 3 Drawer Prelam Pedestal with Castors considered per Workstation 18mm thick OSL Prelaminated Board (with one side laminate and other side white balancing laminate). Rear side of the Pedestal made up of 9mm thick prelaminated white board. It contains two book drawer of size approx. 340W X 380D X122H. Facia and File drawer will be approx. 340W X 380D X 340H facia. Drawers are operated with EBCO roller slides for smooth operations. Top and facia are 2mm thick matching lipping.
- Key Board tray - Made of 1.2mm thick CRCA Steel with telescopic slides having roller ball bearings.
- CPU Trolley - Made of 1.2mm thick CRCA Steel with lockable castors.
- Frame Thickness - Outer to Outer 75mm. Vertical channel has 5 nos cutouts each of size 35mmx70mm
- Vertical Trims - Made of average 1.3mm thick Aluminium extrusions & Weight of 0.45 kg/mtr
- Post:- Made of average 1.3mm thick Aluminium extrusions & Weight of 0.45 kg/mtr
- Horizontal Pipe:- Made of average 1.2mm thick Aluminium extrusions & Weight of 0.45 kg/mtr
- Vertical Channels:- Made of average 1.5mm to 2.2mm thick Aluminium extrusions & Weight of 0.65 kg/mtr.
- Brackets:- Made of 2mm thick HR Steel
- Leveller bolts:- M10X50MM Leveller bolts are provided with point pivot on floor  
Ensemble Conference Table
- Conference Table Work Top is in 25mm thick prelaminated table top with ST. Edge Lipping, Legs & Understructure are in CRCA powder coated finish
- 9 Module Legrand Make Power Dock are provided for Electrical & D/V connectivity  
Prelam Storages 1200HT

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- Carcass and openable shutters made out of 18mm thick OSL pre lam board (one side laminated other side with white balancing laminate) Top and Door edges are with 2 mm thick matching lipping. Rear side is made up of 9mm thick pre laminated board. Skirting is made up of 85 mm pre laminated with adjustable toe space. Leveler bolt – M6X25 are provided to take care of undulations of floor. Hinges- HETTICH or EBCO made which operates at 90 degrees. Shutters- made of 18mm thick OSL pre lam board and fixed on pins. Left Side door with provision of 'locking patty' & right side door with provision of central lock.

## **2. DISCUSSION TABLE:**

Size: 1500 (L) x 750 (D)x 750mm (H)

Conference Table shall be custom made as specified in Bill of Quantities and as per Drawing. Refer Drawing for complete details. Table consisting of 3 parts top made out of 19mm THICK BWP.

All vertical support made out of 19mm BWP plywood. Suitable raceways to accommodate all services under table top to be provided with switches/ sockets on table as shown in drawing.

All vertical and horizontal supports to be finished with 1mm approved laminate.

### **2.1. PEDESTAL UNIT WITH 2 DRAWERS AND 1 FILE DRAWER**

3 Drawer made of prelaminated HMR grade particle board fixed pedestal considered per Workstation: -Pedestal are made of complete body and facia prelaminated HMR grade particle board. Telescopic channels for drawers, handles for individual drawers and cylindrical lock.

Key Board tray: - Made of 1.2mm thick CRCA Steel with telescopic slides having roller ball bearings.

## **3. WOOD WORK**

- **SCOPE:** This specification covers the general requirements for wood work.

### **3.1 GENERAL REQUIREMENTS**

The contractor shall furnish all materials, labour, operations, equipment, tools and plants, scaffolding and incidental necessary and required for the completion of all carpentry and joinery work as called for in the drawings and Bill of Quantities.

The carpentry and joinery work shall include the provision of fixing of fastening devices and hardware in accordance with the drawings and attached hardware schedule. Hardware and other materials will be supplied by the contractor after obtaining prior samples approval for each item of hardware.

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The Contractor shall strictly follow, at all stages of work, the stipulations contained in the Indian Standard Safety Code and the provisions of the Safety Rules as specified in the General Conditions of the Contract for ensuring safety of men and materials.

Any approval, instructions, permission, checking, review etc. whatsoever by the BEML shall not relieve the Contractor of his responsibility and obligation regarding adequacy, correctness, completeness, safety, strength, workmanship etc.

#### **4. MATERIALS**

##### **4.1 Glass**

All glass shall be of superior quality from approved manufacturer like Hindustan Pilkington or approved equivalent, having uniform refractive index and free from flaws, speaks and bubbles. Sheet glass for glazing and framing purposes shall conform to IS: 2835 latest edition. The glass shall be brought to site in the original packing from the manufacturer and cut to size at site. The cut edges shall be straight and free from chips, spalls or any other damages. Wherever clear sheet glass is specified, it shall be flat drawn sheet glass and shall be at least 4 mm thick or as specified. Where wire glass is mentioned, it shall be thick rolled glass with centrally embedded wire mesh or Georgian type. Where obscure glass is mentioned, it shall have a cast surface on one side. The Contractor shall submit samples of glass for prior approval.

##### **4.2 Aluminum Box Frames**

The Aluminum Box frames for the Solid partitions shall be made out of Aluminum sections of 50 x 25mm size with 1.5mm thickness. The Aluminum sections shall conform to IS: 9833.

##### **4.3 Putty**

In general, the putty shall conform to IS: 420 latest editions. The putty shall be of best quality from approved manufacturer. It shall be brought to site in the manufacturer's original packing. Quick setting putty shall be used for windows and sashes except when glare reducing glass is used where it shall be of non-setting type.

##### **4.4 Wooden Partition**

The boarding for wall lining shall be of BWP (IS: 710 GRADE) ply, commercial plywood, black board, plywood with teak veneer, laminate or any other materials as directed; fixed on to the frame. The boarding shall be of sizes shown in the drawing or as directed. In case of partitions, the facing materials like plywood with approved teak veneers, or Formica, or any other material as directed shall be fixed.

#### **5. INSTALLATION**

All timber for joinery work or wrought form work shall be of best Indian Teakwood unless otherwise specified and of specified quality, carefully selected free from sap and subject to inspection and

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approved before delivery. All teakwood to be used in this work shall be seasoned in an approved manner.

All workmanship pertaining to wood work shall be of best standard and all joinery work shall fit freely and without wedging or filling and of the kind directed by the BEML Wood work in frames shall be wrought and all frames joints shall be put together with white lead and pinned with hard wood pins. All exposed faces of joinery shall be thoroughly planed. Jointing shall be by means of mortice and tenon, dovetailed joints or as directed by the BEML.

The joiner work shall be framed and put together immediately but not to be wedged up until required for fixing. The approval of the BEML shall be obtained before any primer coat is applied.

The whole of joinery to be finished to the dimensions and sizes indicated in the drawings are subject to a tolerance to 1.50 mm of each planed face, but no allowance shall be given to flush doors, shutters, ply and other manufactured board etc.

All black boards etc. shall correspond to respective IS specifications. Flush doors shall correspond to relevant IS specifications. Samples of all black board, plywood, flush doors, etc. shall be got approved by the BEML before placing order. All such items shall be of standard manufacture of reputed quality. Unless otherwise specified, all flush shutters shall be teak veneered on both sides. All flush shutters shall be of solid core and shall be provided with teakwood external lipping. If after execution any shrinkage or bad workmanship is found, the Contractor shall forthwith replace or refix the same at his own cost, all as directed by the BEML

Rate quoted shall include for all framing, usual waste and cuttings and no extra rates or claims will be entertained on this account.

The rate for wood work shall include the cost of all sawing, planing, jointing, framing, labour and materials for raising and fixing and all workmanship and fixing and supplying of all strips, bolts, nails, trenails, spikes, keys, wedges, pins, screws etc. necessary for the framing as per specification and drawings. Edges of the beams, joists, posts, frames etc. shall be rounded, moulded or chamfered as directed without extra charges.

The Contractors shall be responsible to deliver all items at site of work. The Contractor will submit a programme of work in such a way that requirements for each floor commencing from ground floor is completed before the requirement of the next floor and arrange to have them fixed in position as the General Builders work progresses.

Timber in contact with masonry or concrete shall be treated with solignum paint or any approved anti-termite treatment before fixing.

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The Contractor will be making necessary holes in concrete and masonry for fixing in position and grouting. The Contractor will be responsible for the proper fixing of partitions true to plumb and alignment until completion and grouting pockets with cement concrete and make good affected portions without claim to any extra.

The iron monger fittings shall be of heavy type cast brass oxidized and of approved manufacture. Samples of all iron monger items shall be got approved by the BEML prior to procurement.

## **6. CODES AND STANDARDS**

All standards, specifications, acts, and codes of practice referred to herein shall be the latest editions including all applicable official amendments and revisions.

List of certain important Indian Standards, Acts and Codes applicable to this work is given below.

However, the applicable standards and codes shall be as per but not limited to the list given below:

IS: 205	Non-ferrous metal butt hinges
IS: 281	Mild steel sliding door bolts for use with pad locks
IS: 287	Permissible moisture content for timber, used for different purposes
IS: 303	Plywood for general purposes
IS: 710	Plywood for wet areas
IS: 848	Synthetic resin adhesives for plywood
IS: 883	Code of practice for design of structural timber in building
IS: 1003	Timber paneled and glazed shutters
IS: 1141	seasoning of timber - Code of practice
IS: 1328	Veneered decorative plywood
IS: 1659	Block boards
IS: 2202	Wooden flush door shutters
IS: 2835	Flat transparent sheet glass
IS: 3087	Wooden particle boards (medium density) for general purposes
IS: 3097	Veneered particle boards
IS: 3809	Fire resistant test for structures
IS: 4021	Timber door, window and ventilator frames

## **7. FALSE CEILING**

### **7.1 PLAIN FALSE CEILING:**

Providing and fixing moisture resistant gypsum false ceiling at all heights.

#### **Frame work:**

Frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm center to center, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required

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size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm center to center, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm center to center, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long.

**Existing support for false ceiling can be used and additional support from roof bottom which is upto 3 feet from proposed ceiling height.**

**Fixing of gypsum board:**

Fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cut-outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting.

**Gypsum board specifications and finishing:**

Board of 12.5mm thick moisture resistant gypsum plasterboards with water absorption < 5% as per BS EN 520 Green Pro certified by CII is screw fixed with 25mm long Drywall screws at 230 mm centers. The screw fixing of gypsum boards to the metal framing at the periphery, openings and cut edges should be at 150mm centers. All the Moisture Resistant Gypsum boards must be staggered. All joints to be taped & finished with Paper tape & redimix All Purpose Joint Compound confirming to ASTM C475. Work should be carried out as per guidance of Engineer in charge and/or Manufacturer's specifications. Finished with 2 coats of putty and 2 coats of primer and 2 coats of painting etc., complete. (BRANDS: REFER APPROVED BRAND LIST).

**8. HARDWARE FITTINGS**

All hardware fittings and fixtures shall be made with structural properties to sustain safety and withstand strains and stresses to which they are normally subjected to such as opening and closing, wind pressure etc. The fittings shall generally conform to relevant specifications.

They shall be made true, clean, straight, with sharply defined profiles and unless otherwise shown or specified, with true smooth surfaces and edges, free from defects, screw holes shall be counter sunk to suit the head of wood screws.



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The metal shall be treated with finish as specified in the Bill of Quantities.

**Butt Hinges**

These shall be treated with finish as specified in the Bill of Quantities.

M.S. Butt Hinges shall conform generally to the latest version of I.S.205.

M.S Butt hinges shall be manufactured from M.S sheets of approved gauges. Hinges shall be finished as specified in the respective items. The size of butt hinges shall be taken as length of the hinge.

**Mortice locks**

This standard lays down the requirements for rebated mortice locks suitable for use on double leaf doors with rebated meeting stiles.

The sizes of mortice locks shall be as follows: 65 mm, 75 mm and 100 mm. 2.1.1 The size of the lock- shall be denoted by the overall length of the body measured from the outside face of the fore end to the rear end. The measured length shall not vary more than  $\pm 3$  mm from the length specified for the size.

**Sliding bolts/Latches**

These shall be of M.S. Brass or as specified in the BOQ and shall be capable of smooth sliding action. These shall be finished as specified. The size of latch shall be taken as the length of the bolt catch.

**Tower Bolts**

These shall be as specified viz., anodized aluminum tower bolts from external section.

In the case of brass and aluminum tower bolts, steel spring and ball shall be provided between the sheet and the barrel.

The size of tower bolts shall be taken as the length of barrel without top socket. The bolt shall be finished as specified.

**Handles**

These shall be as described in the Bill of Quantities and finished as specified.

**Door Closer**

These shall be of approved quality as per make of materials and as specified in the schedule of quantities.

**9. MODE OF MEASUREMENT**

Unless noted otherwise in the bills of quantities, the method of measurement for various items shall be generally in accordance with IS 1200 subject to the following:

All work shall be measured net as fixed. No extra measurement will be given for shape, joints, splayed, meeting stiles of doors and windows and shall be measured in unit of square metre. Door frames shall be in cubic metre, if measured separately.

Area over one face inclusive of exposed frame thickness (excluding width of cover mould) shall be measured in case of doors, windows and ventilators when frames are included in the item. Portions embedded in masonry or flooring shall not be measured.



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## **10. LIGHT FITTINGS AND ACCESSORIES**

(Project specifications to be referred in project specific technical specifications)

### **10.1 SCOPE**

This specification covers the design, material specification, manufacture, testing at works, inspection and delivery at site of light fittings and their associated accessories.

### **10.2 STANDARDS**

The light fittings and their associated accessories shall comply with the latest applicable standards. All luminaries, lamps and accessories shall be of same make.

### **10.3 GENERAL REQUIREMENTS**

Fittings shall be designed for continuous trouble-free operation under hot humid atmospheric conditions, at the specified ambient temperature, without reduction in lamp life or without deterioration of materials and internal wiring. Outdoor fittings shall be weather proof and rain proof type.

The fittings shall be designed so as to facilitate easy maintenance, including cleaning, replacement of lamps / starters etc.

Connections between different components shall be made in such a way that they will not get loosened by small vibration.

The fittings shall be supplied complete accessories.

The fittings and accessories shall be designed to have low temperature rise. The temperature rise above the ambient temperature shall be as indicated in the relevant standards.

The fittings shall be power factor corrected to 0.95 lagging or better till unity PF.

Each fitting shall have a terminal block suitable for loop-in, loop-out and T-Off connection.

The internal wiring shall be completed by the Manufacturer by means of stranded copper wire and terminated on the terminal block.

### **10.4 PAINTING / FINISH**

All surfaces of the fittings shall be thoroughly cleaned and degreased. The fittings shall be free from scale, rust, sharp edges and burrs.

The housing shall be stove-enameled / epoxy stove-enameled / vitreous enameled or anodized as indicated under various types of fitting.

The finish of the fitting shall be such that no bright spots are produced either by direct light source or by reflection.

## **11. ROLLER AND ROMAN BLINDS: (ZEBRA BLINDS):**

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Premium quality ZEBRA blinds with Solar Protection Fabric of high tenacity Polyester Yarn with PVC Coating and grey backing and 100% blackout/ heat radiance. Fabric shall have visible light and solar properties & green guard (gold) Indoor Air quality & certified. Weight - 540 g/sq.m ( $\pm 5\%$ ), Thickness - 0.47mm ( $\pm 5\%$ ), Fabric openness factor - 0%, Tensile strength (warp/weft) - 160/170 daN/5cm, Tearing Strength (warp/weft) - 11/13 daN, Fungistatic treatment - Degree 0 Excellent (EN ISO 846-A), Fire retardancy - B-s2,d0/EN 13501-1, Class A/ASTME84. BLINDS SHALL BE FIRE RETARDANT FOR FABRIC TEXTURE AND COLOUR THE BIDDER HAS TO TAKE APPROVAL FROM BEML BEFORE ORDERING THE BLINDS.

## **12. Electrical point wiring, data cabling, lightings.**

The contractor shall take care to see that all the cables received at site are apportioned to various locations in such a manner as to ensure maximum utilization. Insulation resistance of Existing cables/ wiring from DB shall be checked and can be used for lighting and power socket in First floor after making joints with heat sinkable sleeves.

All cables and wires for lighting and power sockets shall be properly routing through the PVC conduit/ hose reels, concealed in the wall, false ceiling, floor and inside the workstation panels

Data cable to be laid newly from rack to the end points properly routing through the PVC conduit/ hose reels, concealed in the wall, false ceiling, floor and inside the workstation panels.

Cost of concealing and make good of surfaces is under scope of the contractor.

Before the cables are cut to lengths. Where straight joints in cable are unavoidable, the use and location of such straight joints shall be got approved by Construction Manager/Engineer-in-charge.

## **13. LIGHT FITTINGS AND ACCESSORIES:**

### **13.1 SCOPE**

Scope of work under this section shall include inspection at suppliers/manufacturer's premises, appropriate, receiving at site, safe storage, transportation from point of storage to point of erection and erection of light fittings, fixtures and accessories including all necessary supports, brackets, down rods and painting as required. The contractor shall supply all materials and accessories (other than those supplied by the owner), labor, tools, transportation, scaffolding etc., required for the completion of above work in all respects. STANDARDS APPLICABLE: The lighting and their associated accessories such as lamps, reflectors, housings, ballasts etc., shall comply with the latest applicable standards, more specifically the following:

- Electric light fittings General and safety requirements - IS - 1913.
- Industrial lighting fittings with metal reflectors - IS - 1777
- Decorative lighting outposts - IS - 5077 Flood Lights - IS - 1947
- Luminaries for street lighting - IS - 2149
- Bayonet lamp holders - IS - 1258
- Bi-pin lamp holders for tubular fluorescent lamps - IS - 3323
- Ballast for use in fluorescent light fittings - IS - 1534
- Starters for fluorescent lamp - IS - 2215

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**13.2 Light Fittings – General Requirements:** Fittings shall be designed for continuous trouble free operation under atmospheric conditions, reduction in lamp life or without deterioration of materials and internal wiring. Outdoor fittings shall be weather - proof and rain proof.

- a. Fittings shall be so designed as to facilitate easy maintenance including cleaning, replacement of lamps/starters etc.
- b. Outdoor type fittings shall be provided with weather proof boxes.
- c. Each fitting shall have a terminal block suitable for loop-out connection by 1100 V PVC insulated copper conductor wires up to 4 Sq.mm. the internal wiring should be completed by the manufacturer by means of standard copper wire and terminated on the terminal block.
- d. All hardware used in the fitting shall be suitably plated or anodized and passivated for use in industrial plants.
- e. Earthing each light fitting shall be provided with an earthing terminal. All metal or metal enclosed parts of the housing shall be bonded and connected to the earth terminal so as to ensure satisfactory earthing continuity throughout the fixture.
- f. Painting/Finish All surfaces of the fittings shall be thoroughly cleaned and degreased and the fittings shall be free from scale, rust, sharp-edges, and burrs.
- g. The housing shall be stove-enameled or anodised as required. The surface shall be scratch resistant and shall show no sign of cracking or flaking when bent through 90 deg. over 12 mm dia mandrel.

### **13.3 ACCESSORIES FOR LIGHT FITTINGS REFLECTORS:**

The reflectors shall be made of CRCA sheet steel/aluminum/silvered glass/Chromium plated sheet copper as required. The thickness of reflectors shall be as per relevant standards. Reflectors made of steel shall have stove enameled/vitreous enameled/epoxy coating finish. Aluminium used for reflectors shall be anodized/epoxy stove enamelled/mirror polished. The finish for the reflector shall be as specified. The reflectors shall be free from scratches blisters and shall have a smooth and glossy surface having no premium light reflecting coefficient. Reflectors shall be readily removable from the housing for cleaning and maintenance without use of tools.

## **14. TECHNICAL SPECIFICATIONS OF DATA & VOICE NETWORK**

It covers Scope of work and technical requirement for supply, installation, testing and commissioning of Data & Voice Networking to be done in the Proposed Overhauling Hangar and in Office building.

### **14.1 TECHNICAL SPECIFICATION**

The following is the general list of components, which shall constitute the IT & Voice networking.

- A. CAT 6 cable
- B. CAT 6 Information Outlet

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**A. CAT 6 cable**

- All copper cabling for IT network should be of minimum CAT6 grade, 8 strands, UTP, capable of supporting sustained traffic at 1Gbps.
- Run all cables in a "Star" configuration. That is to say that they all emanate from, and are "homerun" to, one central location, known as the wiring hub.
- Keep all cable runs to a maximum of 295 feet for LAN (for each run).
- Always install jacks in such a way as to prevent dust and other contaminants from settling on the contacts. The contacts (pins) of the jack should face up on flush mounted plates, or left, right, or down (never up) on surface mount boxes.

**B. CAT 6 Information Outlet**

- RJ45 sockets for data and RJ11 sockets for voice to be used.
- Dual/Quad faceplate for LAN & Voice outlet and Single faceplate for either LAN or Voice outlet along with the required back box to be provided for each workstation as marked in the layout drawings.
- Shall have shuttered jacks for dust exclusion when not equipped with patch cord.
- Data and voice points shall be identified by separate color coding of the Cable and wiring installation:
- Copper & Fiber cabling should run on the cable tray / aluminum raceways / conduits.
- Each and every cable end shall be clearly tagged and identified as per the tagging philosophy which will be decided later.

**10. List of Approved Make**

<b>Sl. No</b>	<b>Name of materials</b>	<b>Approved Make</b>
<b>Civil works</b>		
1	Cement (PPC/OPC)	ACC/ Ultra Tech/ RAMCO / Dalmia / Chettinad Cements
2	White Cement/ Wall putty	Birla wall care/JK White/ Berge/Asian Paints/ShieldmaxX
3	Aluminium Sections	Jindal/Hindalco/Indalco/ Nalco
4	Toughened Glass	Modi Guard/ Saint Gobain / HNGIL// AIS/ Trutuff
5	Frameless Glass fitting	Ozone / Dorma
6	All type of Primers / Synthetic Enamel paint	Asian/ ICI (Dulux)/ Nerolac/ Berger
7	Interior Emulsion	Asian Paints (Royale)/ Berger (Silk Glamour)/ Nerolac (Impressions HD)/ Dulux(velvet touch)
8	Adhesive	Pidilite/ Dunlop/ Sika/ Fosroc/ Endura/ Laticrete
9	Structural & Weather Silicon	Dow Corning/Wacker.
10	Flush Door shutters	Duro/ Kitply (Swastik)/ Century/ Durian/ Greenply/ Merino/ Green Panel/ A1 teak/ / JENA
11	Flush Door Shutters (Decorative/ Non-Decorative).	Swastic/ Corbett/ Century/ Green/ Archid/Jena
12	Hydraulic Door Closer/ Floor Spring	Hardwyn/ Godrej/ Dorma /Ebco
13	Door Locks	Godrej/Europa/Ozone/Dorset
14	Hardware's Door & Windows	Hettich/ Everite/Dorma/ Godrej/Iron mongery

<b>Electrical, Data &amp; Voice Networking Works</b>		
1	FRLS and PVC insulated stranded flexible copper wires as per IS 694	Finolex/ Polycab/ Havells/ KEI/ RR KABEL
2	PVC rigid conduit heavy duty	Finolex/Precision/Avon Plast/ BEC/AKG/ Vasavi Minimum thickness 2.0mm up to 25mm and 2.5 mm for above 25mm
3	M.S. Conduit pipe and accessories	AKG/BEC/RMCON/NIC with ISI marking
4	Modular type Switches, Socket, Fan Regulator, including Modular Boxes and Plates and accessories	Legrand (Mossaic/Myrise)/ Crabtree (Picadly)/ Schneider (Zencello)
5	LED light Fittings, lamps & accessories	Philips/Havells/Bajaj/CGL
6	Ceiling Fans	Havells/Usha/CGL/Bajaj/Orient (5 star BEE rated BLDC with regulator shall be used)
7	Split type Air conditioner	Daikin / Blue Star /Voltas / LG/ Carrier / Mitsubishi / Godrej / (5 star BEE rated Inverter ACs shall be used)
8	Voltage stabilizers	Godrej/ V-Guard/ Microtek/ Voltas
<b>Telephone, Network, Access control/ CCTV systems</b>		
1	Telephone cable	Finolex/Havells/Polycab/RR cable/Molex
2	Telephone Krone Connector	D-link /systemax/digilinc/molex/Krone or equivalent.
3	Telephone/Cat6 IO/ LIU/CAT 6 Jack Panel/ CAT 6 LAN Cable	Molex/ Systimax/Tyco/Panduit
4	Network Rack	Net Rack/ Wall Rack/Panduit/Rittal
5	LAN / Data/ Voice Networking components	D-Link/Digilink/Molex/Panduit/Systimax/ Tyco
<b>Interiors</b>		

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1	False Ceiling/ Panels of all types	Gyproc/ India Gypsum/ Usg Knauf/ Armstrong
2	Workstations, Conference table, Executives Room Tables and discussion tables and storage racks, cabinets	Featherlite/ Godrej Interio/ Haworth/ Wipro/ Durian/Damro / Bosq / reputed ISO certified OEM(Necessary proof to be submitted and sample approval to be obtained.
3	Plywoods	GREENPLY/ KITPLY/ SHARONPLY/ CENTURYPLY
4	Laminates	New Mika/ Greenlam/ Merino/ Dorby Mica/ Formica
5	Window Blinds	Mac/ Trac/ Vista Levelor /Marvel
6	Locks And Hinges For Cabinets And Cupboards	Godrej/ Ebco/ Hettich
7	Cabinet Handles, Tower bolts, Door Closers	Godrej/ Ebco/ Hettich

Note :

1. Before bulk purchase of quantities of materials, it is the responsibility of the Contractor to get the samples of materials approved from Engineer
2. If the above approved brands are not available, prior approval shall be obtained from Engineer-in- charge for using equivalent make.
3. Contractor will be responsible to ensure the quality of products listed in approved list of makes / brands. Contractor will have to replace the defective and sub-standard materials at his own cost.



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**11. BILL OF QUANTITIES (BOQ)**

Sub:- Expansion of Material Management Office & Interior Furnishing of new store office at stores shed 2 with networking at BEML, Palakkad Complex.			
Sl. No	Description	Unit	Quantity
<b>I) Demolition &amp; Civil Works</b>			
1	Dismantling/Removal of <b>Existing Gypsum False Ceiling</b> at First floor, removing the materials to the salvage within a lead of 1.0 Km, Cost including of all labour, lifting, loading, unloading, leads, tools, equipment etc., Complete as per directed by Engineer in charge. Work includes removing of all type of light fittings and insulation of electrical wiring.	Sqm	70.00
2	Removal and refixing of the <b>existing lights fittings (2X2)</b> in the ceiling, complete as directed by Engineer-in-charge.	Nos	15.00
3	<b>Removal of Brick masonry</b> for fixing the UPVC windows, built in including cement mortar and removing the rubbish, within a lead of 1.0 Km, Cost including of all labour, lifting, loading, unloading, leads, tools, equipment etc., Complete as per directed by Engineer in charge.	Cum	0.50
4	<b>Dismantling of Existing Wooden partition</b> and Removal of debris Wooden within a lead of 1.0Km, Cost including of all labour, lifting, loading, unloading, leads, tools, equipment etc., Complete as per directed by Engineer in charge. Work includes safe removing the electrical wiring, switches and sockets in the wooden partitions. Existing cables and circuits shall be used for providing lighting and power controls.	Sqm	50.00
5	<b>Repair and refixing</b> of L shaped workstations with half height partition is to reduction of length and fixing the same, Debris Wooden within a lead of 1.0Km, Cost including of all labour, lifting, loading, unloading, leads, tools, equipment etc., Complete as per directed by Engineer in charge.	No	2.00
6	Removal and re-fixing of existing <b>1.5T AC</b> on the proposed new wooden partition with drain pipe as per directed by Engineer in charge	Nos	1.00
7	Removal and re-fixing of existing <b>2T AC</b> on the proposed new wooden partition with drain pipe as per directed by Engineer in charge	Nos	1.00
8	<b>Rendering/Plastering</b> to internal/external wall surfaces 15mm thick in Cement Mortar 1:4 on fair faces of brick or concrete surfaces including finishing the surfaces even & smooth, curing, tools & tackles etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary. Complete as per directed by Engineer in charge	Sqm	15.00

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9	Providing and fixing 2 track <b>Aluminium sliding window with aluminium grill</b> fabricated and fixed in Masonry wall having main frame work of vertical and horizontal , out of extruded sections (15 micron anodized natural finish ).The rate includes 4mm thick plain glass and to be fixed with snap fit aluminium beading and special PVC weather proof gasket and necessary locking arrangement. The rate also includes supply and fixing of Aluminium grills for winds fabricated from 10 microns natural anodized Aluminium grills which has 10mm width and 5mm Thick. The rate also includes fixing of main frames and grills into masonry wall/ RC concrete surface with necessary clamps, fasteners, bolts etc. Cost shall inclusive of fixing sun control film over the windows glass. Complete as per directed by Engineer in charge	SqM	2.00
10	Preparing <b>Putty for Internal Surface of walls</b> , including thorough cleaning of surface, removal of loose paint, algae, moss, repairing cracks with cement-based crack filler(whenever required), scaffolding, curing, and all tools & plants, complete as directed by Engineer-in-charge.	Sqm	50.00
11	Preparing & <b>Painting of the Internal Surface of walls</b> with Primer & premium Emulsion paint (weatherproof, anti-fungal, UV resistant) of approved shade and make, applied in two or more coats to give even shade over a coat of alkali-resistant cement primer, including thorough cleaning of surface, removal of loose paint, algae, moss, repairing cracks with cement-based crack filler (whenever required), scaffolding, curing, and all tools & plants, complete as directed by Engineer-in-charge.	Sqm	300.00
<b>II) Interior Works</b>			
12	Supply and fixing of <b>L SHAPE WORKSTATION</b> with specification of partition height of 1200mm frame with top and sides in Aluminium trims and junctions with diecast caps. Table Top of 25mm thick Pre laminate particle board with 2mm PVC edge lipping on all exposed edges supported with 18mm thick pre laminated gable ends. Wire management : Two numbers of 65mm Grommet cap on table & two metal raceway tile to mount switches below table top level for power and skirting tile for data. Above table top Level: Fabric Tiles, one glass marker tile & one magnetic tile per workstation and Below table Top level: Pre-Laminated tiles and metal skirting tile on Main spine towards user. Fabric tile code: Response Fabric brand - festival collections - F 181 - Colour will be finalised in execution - (Composition - 100% polyester, weight - 415grams per line meter) with FLAME RETARDANT BS EN 1021(MATCH) & IS 15061-2002 and to be provided (MUST) with HYDROGUARD (STAIN GUARD) - Fabric tiles only comes inside the workstations. It is responsibility of the vendor to provide the sample and get the approval from the BEML before delivery.	Nos	16.00

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13	Supply and fixing of <b>half height partition (element)</b> consist of 3 three components - Framework- Finely tolerance CRCA (1.2mm thk) vertical and horizontal members welded together, 75mm wide which can be linked horizontally or vertically to any desired configuration. Frames are available in rectangular grids of 1135mm height and 5 widths 600mm, 750mm, 900mm, 1050mm, 1200mm and a module height of 525mm. fascia tiles and wire management. with M6 screws and top runners, bottom skirting, end trims, corner posts, slots in verticals, height adjusters & all aluminium components with powder coating, execute the work as per drawing, specifications and Engineer in charge.	Rmt	10.00
14	Supply and fixing of <b>Fixed pedestal</b> of dimension : 400mm W X 450mm D X 720-740mm H made of HMR particle board for workstation storage. Pedestal are made of complete body and facia in 18 mm thick HMR prelaminated particle board of approved color, Telescopic channels for drawers, handles for individual drawers and cylindrical lock. the fitting should be as per approved make list. It is responsibility of the vendor to provide sample and get approval from the BEML before delivery.	Nos	16.00
15	Supply and fixing of <b>Fixed pedestal</b> of dimension : 400mm W X 450mm D X 720-740mm H made of HMR particle board for workstation storage. Pedestal are made of complete body and facia in 18 mm thick HMR prelaminated particle board of approved color, Telescopic channels for drawers, handles for individual drawers and cylindrical lock. the fitting should be as per approved make list. <b>Cost inclusive of removing the old pedestal and replacing of new. (wherever replace)</b> . It is responsibility of the vendor to provide sample and get approval from the BEML before delivery.	No	6.00
16	Providing and fixing moisture resistant plain <b>Gypsum False</b> ceiling Boarding with 12.5mm thick moisture resistant gypsum plaster boards with water absorption < 5% as per BS EN 520 Greenpro certified by CII is screw fixed with 25mm long Drywall screws at 230 mm centres. The screw fixing of gypsum boards to the metal framing at the periphery, openings and cut edges should be at 150mm centres. All the Moisture resistant Gypsum boards must be staggered. All joints to be taped & finished with Paper tape & redimix All Purpose Joint Compound confirming to ASTM C475. Work should be carried out as per guidance of Engineer in charge. Finished with 2 coats of putty and 2 coats of primer and 2 coats of painting) etc., complete as directed by Engineer-in-charge. 2 Nos of trap door of size 600x600mm to be provided. False ceiling fixing frames shall be replaced with new frames wherever required. Cost shall be inclusive of gypsum board, fixing frames, accessories, painting , providing trap door etc.	Sqm	70.00

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17	Supply & fixing of <b>10mm toughened glass partition</b> with suitable holding clamps and wooden frames at top & bottom including all necessary fitting like rubber beading and labour etc. complete as directed by Engineer-in-Charge. Cost also includes supply and fixing of any beading / fittings/ fasteners which requires as per site condition or requires replacements. Cost also inclusive of providing suitable Aluminium channels/ rails from wooden & metal frames. Wherever ceiling support is non-availability support from wall to taken through GI support frame above the false ceiling. (Ref drawing.)	Sqm	20.00
18	Supplying and fixing of double wall plywood <b>Wooden Partition</b> using of 75 mm partition with 50mmx50mm Aluminium sections finished with both side of 12mm BWP Plywood on top with 1mm laminate Sheet including all fixing accessories, adhesives etc. Complete required as per site condition. (Ref drawing.) .Work also inclusive of providing necessary support to RCC ceiling which is at 600mm above false ceiling , routing if cables, laying conduit etc. Sample approval of laminate sheets to be obtained before commencement of work. Measurement is considered one side only	Sqm	35.00
19	Supply and fixing of <b>1 mm laminate sheets</b> in existing veneer wooden partition including door, jams etc as per design and pattern of new partition including surface cleaning, adhesives etc complete as per site requirement. Sample approval toe be obtained before commencement of work from Engineer-in-charge.	Sqm	60.00
20	Supply & fixing of 12mm <b>toughened glass door</b> of size (0.9M x 2.1M) with floor spring door closer, lock mechanism, handles on both sides and all other accessories. Necessary floor cutting, grouting etc to be done for fixing floor spring. <b>Make of door spring door closer: Godrej/ Dorma/ Everest/ Ozone/ Hettich.</b>	No	2.00
21	Providing & fixing <b>Single Flush Door</b> (Size - 110cm x 210cm) made of ISI marked 35mm thick solid core flush door shutters of factory made including both sides laminated finish with design pattern of approved quality make including providing & fixing of floor spring door closure with pivot, including 6mm thick teak wood lipping on all edges of flush door shutters including all necessary hardware or iron mongrey like mortise latch & lock, Tower bolt, Door stopper, door handles on both side of the door, including fixing in wooden partition with pivot / necessary hardware and fixed in position. Provision of clear glass of 6mm thickness fixed with wooden beading and polished. Make of Accessories is Dorma/Ebco. Cost shall be inclusive of fixing of floor spring type door closure in the floor.	Nos	1.00

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22	Providing and fixing <b>Zebra Roller Blinds</b> of Approved make/ Color Install with top acrylic bracket with clutch operation with chain. Rate shall be inclusive of necessary scotch guard treatment on both side. The overlaps should be uniform and adequate. It is responsibility of the vendor to provide the sample and get the approval from the Engineer in charge before delivery.	Sqm	14.00
23	Supply and fixing of <b>STEEL STORAGE SIZE : 90W x 116.85H x 45D (IN CENTIMETERS)</b> with Specifications: of Top & Sides : CRCA Steel, Back : CRCA Steel, Shutters : CRCA Steel, Handle : Plastic Recessed Handle, Lock : Cam lock feature. The storage should be as per GODREJ INTERIO Model: STORWEL MINOR or equivalent model in approved make list. It is responsibility of the vendor to provide the sample and get the approval from the BEML before delivery.	Nos	5.00
24	Supplying, fabricating and installing <b>Table of size 1500mm X 750mm x 750mm for Discussion room</b> with following specification. 1. Top & leg panel : - 19mm thick IS 710 BWP marine plywood with hot/cold press machine lamination of 1 mm thick. The front panel shall be 150 mm from the outer edge of the table and leg shall be in line with the outer edge. . All visible edges shall be covered with 2 mm PVC edge banding and hidden edges with 0.5 mm PVC edge banding. The table should be assembled using a knockdown fittings system. complete., as per list of approved material and as approved by the BEML in all respects. etc complete as per design and the directions of engineer-in-charge.	Nos	1.00
<b>III) Electrical Works</b>			
25	Supply, Installation, Testing and Commissioning of <b>1.0 TR</b> Hi Wall Split 5 star rated inverter AC Unit with Outdoor Unit, Suitable Length (5 meters) Copper Pipes and copper condenser for Split Units With Nitrile Rubber Insulations , Control Cabling IDU to ODU etc including all Accessories like, ODU stand 4 KVA stabilizer, water drain pipe till floor level etc. Cost shall be inclusive of core cutting and all accessories as per site condition. AC unit shall have Manufacturer warranty of (min ) 5 year for PCB and compressor. AC shall have remotely adjustable horizontal and vertical swing feature.	No	2.00
	<b>Primary - POINT WIRING</b>		
26	Wiring for light Point with 3R 1.5 sq mm FRLS PVC insulated copper FRLS wire in concealed conduit / tray with modular switch, modular plate, suitable GI box and earthing the Point as required. Cost also inclusive of modular box, switches, front plate, wires, conduit, wall cutting, concealing, drawing wiring above existing false ceiling, plastering with mesh and making good of surface as per site condition. Maximum Length of above point is 5M.	Point	12.00
	<b>Secondary point wiring</b>		

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27	Wiring for light Point with 3 R 1.5 sq mm FRLS PVC insulated copper FRLS wire in concealed conduit / tray from primary light fitting to secondary as required. Cost also inclusive of wires, conduit, wall cutting, concealing, drawing wiring and conduit above false ceiling, plastering with mesh and making good of surface as per site condition. Maximum length for above point is 3M.	Point	14.00
	<b>Cable and termination</b>		
28	Supply, laying and termination of 3 core 2.5 SqMM copper flexible FRLSH PVC cable in wall / tray/ground in PVC or MS conduit from PDB / from existing circuit to proposed workstation/ socket. Cost inclusive of jointing with heat sinkable sleeve if connected to existing cables, conduit, wall cutting, drawing wiring above false ceiling, concealing, plastering with mesh and making good of surface as per site condition.	Rmt	100.00
29	Supply, laying and termination of 3 core 1.5 SqMM copper flexible FRLS PVC cable in wall / tray/inside workstation in PVC or MS conduit/ Sleeve from PDB or from input point. Cost inclusive of connecting existing cable with heat sinkable sleeve if supply take from existing cables. Cost also inclusive of conduit, wall cutting, concealing, plastering with mesh and making good of surface as per site condition.	Rmt	50.00
	<b>WIRING</b>		
30	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Cost also inclusive of wires, conduit, wall cutting, concealing, drawing wiring above existing false ceiling, plastering with mesh and making good of surface as per site condition 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Rmt	60.00
31	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Cost also inclusive of wires, conduit, wall cutting, concealing, drawing wiring above existing false ceiling, plastering with mesh and making good of surface as per site condition 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Rmt	60.00
	<b>SOCKETS</b>		
32	Supplying and fixing following modular switch/ socket with suitable modular plate & switch box as required. Work includes fixing of sockets with backbox in wall partition/ masonry wall/in workstation table. 6 amps switch with 3Pin 6A Socket	Nos	10.00
33	Supplying and fixing following modular switch/ socket with suitable modular plate & switch box as required. Work includes fixing of sockets with backbox in wall partition/ masonry wall/in workstation table. 16 amp switch with 16A socket	Nos	6.00



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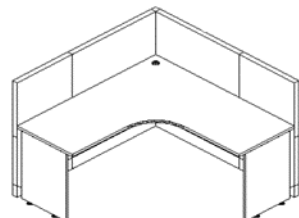
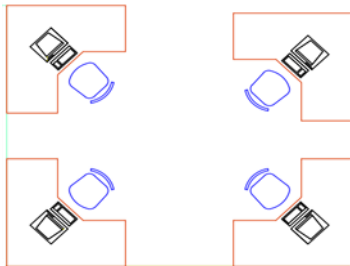
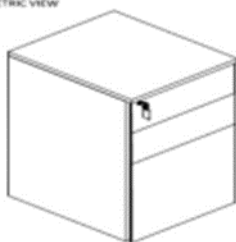
34	Supplying and fixing following modular switch/ socket with suitable modular plate & switch box as required. Work includes fixing of sockets with backbox in wall partition/ masonry wall/in workstation table. Computer socket for workstation 16A Switch with 3 no's of 6A socket outlet	Nos	25.00
	<b>Light fittings</b>		
35	Supply and fixing of 36W±10%, Recessed mounted LED panel light with clip, size: 600 X 600mm (±5mm), 240V, 50Hz, 1 Ph, CRI: ≥80, CCT: 6000K±500, Luminaire System Efficacy: ≥130 lm/w, LM 80 certified LED, LED working life: Minimum 50,000 burning hours, Type of LED: SMD type, Protection: Over load, Short circuit, Reverse polarity protection, Surge & transient protection of ≥ 2.5 KV internal, Housing: Powder coated CRCA sheet steel, Front panel: PMMA diffuser, Ingress Protection: IP20, Weight of luminaire: ≤ 2kg. Warranty: 5 years	Nos	6.00
36	Supply and installation of 20 W LED 6000K AC RECESSED Mounted Round type LED light with drivers in false ceiling. Luminaire shall be round type with 230mm dia suitable to install in 200mm cut-out with ss spring clips. The fitting shall be white in colour with matt finish with diffuser. Rated Luminous flux (at 6000k) shall be 2000 lm or higher. . The fitting should be as per Havells product code: LHEBLEP7IN1W020 or equivalent model in approved make list. Cost shall be inclusive of all necessary fixing accessories, Drivers etc complete. It is responsibility of the vendor to provide the sample and get the approval from the BEML before delivery. Note: Electrical wiring, conduits & switch control is under scope of Electrical Contractor.	Nos	18.00
	<b>VOICE &amp; TV CABLING WORKS</b>		
37	Supply, Laying Testing and Commissioning of 10 Pair Jelly filled Armoured 0.5mm dia Telephone cable with all other associated accessories as required as per the site conditions.	Rmt	100.00
38	Supplying and drawing following 2 pair 0.5 sq. mm FR PVC insulated annealed copper conductor, unarmoured telephone cable in the PVC conduit in surface/ recessed steel as required. Cost shall inclusive of conduit, wall cutting, concealing , drawing cables in false ceiling, making good of surfaces etc	Rmt	450.00
39	Supply, fixing, Testing and Commissioning of 10 + 10 pair KRONE MDF with end termination including all other associated fixing accessories as required as per the site conditions.	Nos	1.00
40	Supply, fixing, Testing and Commissioning of 20 pair KRONE MDF with end termination including all other associated fixing accessories as required as per the site conditions.	Nos	1.00



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41	Supplying, wiring, testing and commissioning of single run of CAT-6 data cable in conduit or flexible hoses in tray, wall, ground etc. As per the manufacturer specification and as per the direction of Engineer In Charge. Cost shall inclusive of conduit, wall cutting, concealing, drawing cables in false ceiling, making good of surfaces etc. Multiple cables can be routed in single conduit as per site condition.	Rmt	700.00
42	Supply, fixing, Testing and Commissioning of CAT-6 Information Outlet RJ 45 for Data and telephone with front plate (Single/Dual/Quard) and backbox with all other associated fixing accessories in workstation as required as per the site conditions.	Nos	65.00
43	Supply, fixing, Testing and Commissioning of CAT-6, 1 Mtr Patch Cord with all other associated fixing accessories as required asper the site conditions.	Nos	20.00
			<b>Total Excl. GST</b>
			<b>Total incl. GST</b>

Reference to the BOQ				
Sl. No	Description	Unit	Qty	Ref Image
12	L SHAPE WORKSTATION	No	16	 
14 & 15	Fixed pedestal 400mm W X 450mm D X 720-740 mm H	No	22	

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21	Fixing flush door 110cm x 210cm	No	1	
23	STEEL STORAGE SIZE : 90W x 116.85H x 45D	No	5	
24	Discussion Table of size 1500mm X 750mm x 750mm	No	1	

**Note : Bidders to submit only Price (Lumpsum for all services in BOQ) and applicable tax details in Commercial Bid through BEML SRM e-procurement platform. Price breakup will be obtained from the successful bidder.**

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