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No. EI-D/GA/15-15/2012

ERNET India

(An Autonomous Scientific Society under Department of Electronics & Information
Technology, Govt)

Jeevan Prakash Building, 10th Floor,
25, K.G Marg,
New Delhi-110 001

Dated:- 02.07.2013

Subject:- Tender for purchase of furniture items at DMRC

Kindly refer to advertisement appeared in Hindustan Times dated 03.04.2013 and subsequent tender document uploaded on ERNET Website on 03.04.2013. In this regard a pre bid meeting was held on 16.04.2013 to deliberate the queries of the bidders.

2. Reference is also invited to advertisement appeared in Hindustan Times dated 02.07.2013 regarding the revised tender document with regard to subject matter. In this regard a revised tender document containing ERNET response to the queries of the bidders is attached herewith. The bid submission date has also been extended to 15.07.2013. Bidders are advised to submit their bids in conformity with the revised tender document by 12.00 noon on 15.07.2013. Bids will be opened on the same day at 12.30 P.M.


(Dinesh Kumar Dixit)
Registrar & CPO

All the prospective bidders

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No. EI-D/GA/15-15/2012

Revised Tender Document

for

SUPPLYING & FIXING / PLACING of MODULAR FURNITURE

AT

**5TH FLOOR, BLOCK - C,
DMRC IT PARK,
SHASTRI PARK,
DELHI**

01.07.2013



Issued By:

**ERNET India
Department of Electronics & Information Technology,
Ministry of Communications and Information Technology,
Government of India
New Delhi-110001**

519

7

INDEX

Contents	Page
Section A : (items listed in section A form part of technical bid)	
Tender Notice	3
Eligibility Criteria	4-6
Instruction to Tenderers	7-8
Offer Letter from the Tenderer to the Client	9
Draft Bank guarantee bond- Annexure A	10-11
General Conditions of Contract	12-23
Appendix to General Conditions of Contract	24
Special Conditions of Contract	25-29
General specifications	30-32
Technical Specifications	33-40
Referred Make of Materials	41-42
Schedule of quantities	43-55
Tender Drawing	56

TENDER NOTICE

1. Item Rate sealed tenders are invited from Manufactures/authorized & approved dealers/channel partners of Godrej/ Herman miller/ Vitra or equivalent brand of furniture for Supplying & fixing / placing the modular furniture for office premises at 5th floor, Block-C, IT park, shastri park, Delhi.

Tender documents may be purchased from the Office of ERNET India 10th floor, Jeevan Prakash, Building, Kasturba Gandhi Marg, New Delhi – 110001 for a non-refundable fee of Rs.2000/- (Two thousand only) in the form of Demand Draft from any Nationalized bank payable at Delhi in favour of 'ERNET India' between 02.07.2013 to 14.07.2013 from 10.00 AM to 5.00 PM (except Saturdays/Sundays and Holidays). The tender document can also be downloaded from ERNET India's website 'www.ernet.in'. In the event of downloading of tender document from the website, an amount of Rs.2000/- towards cost of tender document is to be deposited in the form of Demand Draft from any Nationalized Bank payable at Delhi in favour of 'ERNET India' along with technical part of the tender. Non-submission of tender fee (in case tender document is downloaded from Website), the tender will be treated as non-responsive and will not be taken up for further processing.

2. Tenders must be accompanied by Earnest Money Deposit of Rs.4,00,000/- (Four Lakhs only) in the form of DD in favour of 'ERNET India' payable at Delhi OR in the form of Bank Guarantee from any nationalized bank valid for a period of 180 days from the original date of submission of bid.

3. Quotations should be submitted in two separate sealed covers. First cover indicating "COVER FOR TECHNICAL OFFER" should consist of (i) tender fee of Rs. 2000/- (in case the tender document is downloaded from ERNET's website); (ii) EMD of Rs.4,00,000/- as per Para 2 above; (iii) documents required as per eligibility criteria detailed below; and (iv) signed un priced bill of material, technical specifications of the products offered, product literature, pamphlets, drawing etc. Price column in this cover should be kept blank. Second cover indicating "COVER FOR FINANCIAL BID" should consist of summary & Schedule of quantities filled with prices. Both the covers should first be sealed separately, and then both the covers should be kept in a single sealed bigger cover. This cover addressed by name to the officer signing this enquiry should be submitted to ERNET India 10th floor, Jeevan Prakash Building, Kasturba Gandhi Marg, New Delhi – 110001 at or before 12.00 noon on 15.07.2013.

4. Tenders must be delivered to ERNET India, 10th floor, Jeevan Prakash Building, Kasturba Gandhi Marg, New Delhi – 110001 on or before 12 noon on 15.07.2013. Tenders will be opened on the same day at 12.30 PM. in the presence of the applicants that wish to attend. If the office happens to be closed on the date of receipt of the tenders as specified, the tenders will be received and opened on the next working day at the same time and venue.

5. All prospective bidders are advised to refer to ERNET's website for any update/ additional information up, before submission of their bids. Amendments/changes in the tender if any will be posted on the web site only.

6. Other details can be seen in the tender documents.

7. ERNET INDIA reserves its right to accept or reject any or all tenders without assigning any reason.

Eligibility Criteria

1. Tenders must be accompanied by earnest money deposit of **Rs.4,00,000/-** (Four Lakhs only) in form of DD in favour of 'ERNET INDIA payable at Delhi OR in the form of Performance Bank Guarantee valid for a period of 180 days from the original date of submission of bid.
2. Duration of execution of project shall be 5 weeks as per details below:
 - (i) The contractor should submit shop drawings / Photographs & arrange samples for approval within 3 days of award of work.
 - (ii) Approval of the same would be intimated within 2 days of submission above.
 - (iii) Delivery of complete items as per schedule of quantities including all required accessories for fixing and placement of items as indicated in the tender within 30 days after approval of samples & shop drawings from ERNET.
3. The Bidder should be an authorized & approved dealers / channel partner of approved make furniture at least for a minimum period of last three years prior to this bid.
4. The bidder must submit documentary evidences of their eligibility in support of fulfilling following conditions:
5. The Bidder can be a company/Corporation/Society/Trust/Firm/ proprietorship firm, registered in India and should be in existence prior to 01-04-2005. Consortium in any form is not allowed. Subcontracting in work is not allowed except for labour contracts.
6. The Bidder must Bid for all the works mentioned in the tender documents. Partial Bidding would disqualify the bidder.
7. Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least two crores.
8. The tenderer should have a memorandum of understanding (MOU) with the manufactures of Godrej / Hermanmiller / Vitra or equivalent brand of furniture. He would be required bid only with that particular brand and would have to supply and install within the specified time frame.
9. The Tenderer should be a profit making company.
10. The tenders should have successfully carried out work as under:
 - (i) Three Similar works of Rs. 3800000/- (Rs. Thirty eight Lakhs only) each
OR
 - (ii) Two Similar work of Rs. 4750000/- (Rs. Fourty seven lakhs fifty thousand only) each OR
 - (iii) One Similar work of . Rs. 7600000/- (Rs. Seventy Six Lakhs only) of the similar nature during the last Three years.

Similar work means the work of providing loose and fixed modular furniture in central Government/ Central Autonomous body/ Central Public Undertaking/ Reputed private companies / institutions.

11. Bidder has to submit documentary proof as below:
In case bidder is a company – Certified copy of the Certificates of incorporations for companies & Memorandum and articles of association.
Or
In case the bidder is a registered society – Certified copy of registration deed with objects of constitution of society.

Or

In case bidder is a corporation – Authenticated copy of the parent stature.

Or

In case of proprietary concern- documents authenticating the same

Certified copies of documents submitted, as above, must be signed in ink and carry the seal of the signatory.

12. List of present Directors / Owners/ Executives Council members/ trustees/ Board members as applicable.
13. Copy of Income tax returns filed in last three years.(2009-2010, 2010- 2011 and 2011-2012)
14. Copy of Service Tax Registration Certificate
15. Copy of DELHI VAT Registration certificate.
16. Copy of TIN number issued by DVAT department, proof of having submitted the latest DVAT/CST returns.
17. General Power of attorney / Board of Directors resolution /Deed of Authority executed in favour of person(s) authorized to sign the Bid Document and the contract and all correspondences/document thereof.
18. Audited Balance Sheet, profit & loss account and Income tax return for last three years (2009-2010, 2010-2011 and 2011-1012) duly signed in ink by the authorized signatory of the bidder and his/her auditor.
19. Any other Documentary evidences (signed in ink by authorized signatory) providing that bidder fulfills the eligibility criteria.
20. General information/profile on the bidders company.
21. Similar work means: Supplying & fixing / placing the modular office furniture including modular partitions, chairs, work stations, tables, sofa sets of approved brand / make.
22. List of technical supervisory staff for the proposed project with details of qualifications & detailed experience
23. List of similar eligible projects with details of duration of execution of work as per work order & duration of completion of project.
24. Copy of work order & completion certificate of similar eligible projects.
25. Photograph of completed eligible projects
26. List of Equipments available with the contractor.
27. Approved make / brand of furniture : Godrej/ Hermanmiller/ Vitra or equivalent.
28. Approved model of furniture: as written in BOQ or Equivalent model in approved make / brand of furniture.
29. Tenderers eligible as per conditions of eligibility should download the Tenders from the web site and apply with authentic copies of required documents.
30. The Tenderer should use only one brand (Manufacturer) for supply & installation the all furniture as mentioned in BOQ.
31. Terms & conditions for manufacturer of furniture:
 - a. Tenders are invited from Manufacturers or their authorized dealers for supplying of furniture items, in case of dealers quoting for the project, authorization certificate from original manufacturer to be attached for this project, also confirming that the delivery will be made as per the requirement of tender.

- 515
- b. Manufacturer should be a member of BIFMA, Certificate to be provided.
 - c. Manufacturer should be ISO 9001, ISO 14001, OHSAS 18001 certified certificates to be provided.
 - d. Audited balance sheet should be provided for the last 3 years to show the financial capability of the manufacturer. Turnover of the company should be minimum 50.00crores in each of last three consecutive years. Company should have made profit for last three consecutive years, profit loss statement to be provided confirming the same. In case authorized dealer is quoting for the project then confirmation is required from the original manufacturer taking the responsibility of successful completion of the project.
 - e. Manufacturer should not have been black listed/non conformity of contract from any state government, central government or any PSU.
 - f. Undertaking that the Tenderer is the manufacturer of the required item having ISO 9001, ISO14001 and BS OHSAS 18001 certified facilities for manufacturing the quoted products OR is an authorized channel partner/distributor of the manufacturing firm having ISO 9001, ISO 14001and BS OHSAS 18001 certified facilities. Firms must have proper valid certification and relevant documents. Failure to enclose the same shall render the tender invalid.
 - g. Tax Clearance/Tax Registration Certificate: The Quoting Firms must attach a self-attested photocopy of PAN Card & latest Income Tax Return (ITR), Sales Tax/ VAT registration Certificate or TIN no., Service Tax Registration Number and proof of filling latest return along with the Pre-qualification bid.
 - h. All tenders not conforming to the terms & conditions of the tender enquiry shall be summarily rejected.
 - i. Undertaking that Test Certificates regarding tests of material as well as the raw material shall be submitted as and when demanded by the ERNET India.
 - j. Proof of supplies to central Government/ Central Autonomous body/ Central Public Undertaking/ Reputed private companies / institutions and certificates of satisfactory service/performance for the past 3 years. From manufacturer should be enclosed along with the pre-qualification bid.
32. The OEM (Manufacturer) should have state of art manufacturing facility with latest machinery such as: LVD Turret, Amada Turret, Auto blanking line with straighteners, Benders machine, 100 T Auto blanking line, N.C. Controlled spot welding machine, CO2 welding machine, Spray Phosphating, Powder Coating machine System, Roll Forming Line For drawer bending &PIV ATIC Punching Line.
33. The OEM (Manufacturer) should have product testing laboratory for testing the quality of product consisting of testing machines such as: Cycle testing machine, DFT meter, Gloss meter, Impact tester, Scratch hardness tester, Bursting strength tester, Flexibility tester, Salt spray chamber, Oven (0-250 degree-C) Heating, Conductivity meter, PH meter & Desiccators.
34. All dimensions of furniture sizes mentioned in BOQ are approximate size and varies up to + 5mm.

INSTRUCTIONS TO TENDERERS

The tenderers should read all the instructions, terms & conditions, contract clauses, nomenclature of items, specifications etc. contained in the tender documents very carefully, before quoting the rates.

The completed Tender documents including the hard and soft copies of SCHEDULE OF QUANTITIES should be submitted to ERNET India at the address given in the Tender Notice.

The tender document should be sealed in an envelope superscripted "TENDER FOR ERNET INDIA , OFFICE INTERIOR WORKS AT DELHI and addressed to the ERNET India, 10th floor, Jeevan Prakash Building, Kasturba Gandhi Marg, New Delhi – 110001.

The tenderers should note:

- 1) The bidder's name and address should also be put on the envelope.
- 2) Bidder should ensure that their tenders are received before the date and time specified above.
- 3) Contractors are requested to put their firm's endorsement on each page of the tender documents as a token of acceptance.
- 4) Contractors should fill in all the relevant blanks and put their signature in the relevant places indicated in the documents.
- 5) The Schedule of Quantities should be filled as follows:
 - a. The "Rate" Column to be legibly filled in ink in both figures and words.
 - b. Amount column to be filled for each item and the total amount for each trade to be given.
 - c. All corrections to be initialed.
 - d. Contractor's signature to be put on each page of the Schedule of quantities and in the "Abstract Sheet".
 - e. The "Amount" column for alternative items for which the quantities are mentioned should be filled up.
 - f. The "Rate" column for "Rate only" items should be filled up.
- 6) No alterations or additions are to be made by the Contractors to the tender document. Violation of this instruction will attract rejection of the tender at the discretion of client.
- 7) The Sealed Envelopes shall be opened at the specified time in the presence of the bidder's accredited representatives if they desire to attend.
- 8) The articles of Agreement should not be filled. This will be done at the time the contract is awarded, in the case of the successful bidder only.
- 9) The Bidder shall quote the rates in English language and international numerals. The rate shall be in whole numbers. These rates shall be entered in figures as well as in words. In the event of variation in number written in figure and words, the number written in words will be taken as final. In the event of the order being

513
awarded, the language of all services, manuals, instructions, technical documentation etc. provided for under this contract, will be English.

- 10) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of the errors, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.
- 11) Applicants should note that their tenders should remain open for consideration for a minimum period of 90 days from the date of the opening of tenders.
- 12) The client reserves the right to accept any tender or accept tenders in part or to reject any or all tenders without assigning any reasons thereof and will not be liable to offer any explanation whatsoever.
- 13) Contractors are requested to note that non-compliance of the above instructions is liable to render their Tender non-bonafide.
- 15) Canvassing whether directly or indirectly in connection with the tender is strictly prohibited. The tenders submitted by the contractors who resort to canvassing in any form would be rejected.
- 16) Contractor shall submit the bar chart for execution of work within 3 days after issue of order.
- 17) Financial bid of technically qualified tenderer will be opened after on a later date as intimated.
- 18) The tender, which is not duly signed by authorized signatory or is conditional shall be treated as non-responsive and shall be summarily rejected.
- 19) The successful tenderer shall display samples of furniture of following items at their showroom / workshop situated in NCR or at the office premises of ERNET at at 5th floor, Block-C, IT park, shastri park, Delhi (in case the successful tenderer does not have showroom in situated NCR) at a date specified by ERNET INDIA for approval of following furniture:

1. Furniture for Senior officer	Item No. 3 of Schedule of Qty.
2. Furniture for officer	Item no. 4 of Schedule of Qty.
3. Furniture for Dy. officer	Item No. 5 of Schedule of Qty.
4. Furniture for PA to Senior officer	Item No. 7 of Schedule of Qty.
5. Furniture for Executives with Work stations	Item No. 8 of Schedule of Qty.
6. Furniture for Library	Item No. 13 of Schedule of Qty.
7. Furniture for Pantry/ Dining	Item No. 14 of Schedule of Qty.

The successful tenderer would be required to submit a certificate from the Manufacturer declaring that the supplied furniture is authentic company furniture and the company along with the contractor stands a warranty of one year towards the manufacturing defects of the furniture after installation with his final bill.

- 20) The tenderer has to submit and affidavit as "I/we undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Also if such a violation comes to the notice, ERNET will be at liberty to forfeit the entire amount of earnest money deposit/performance guarantee, cancel the order and I shall be debarred from tendering in ERNET contracts forever."
- 21) The tenderer must visit the site and make themselves conversant with site and site conditions and the terms & conditions of the campus owner / DMRC for carrying out work in the campus.

SIG. & SEAL OF CONTRACTOR

OFFER LETTER FROM THE TENDERER TO THE CLIENT

TO
ERNET India
Mr. Dinesh Dixit,
Registrar & CPO,
10th Floor, Jeevan Prakash Building,
25, K.G. Marg,
New Delhi

2. Name of work: SUPPLYING & FIXING / PLACING THE MODULAR FURNITURE OF OFFICE PREMISES OF ERNET INDIA AT 5TH FLOOR, BLOCK-C, IT PARK, SHASTRI PARK, DELHI.

Dear Sir,

1. Having examined the drawings, specifications conditions, form of item rate contract, schedule of quantities relating to the above work and having visited and examined the site of the proposed works and having acquired the requisite information relating thereto as affecting the tender invited by you on behalf of the ERNET India.
2. I/We, the undersigned, hereby offer to construct, execute and complete the above work to the satisfaction of the Client on item rate basis in strict accordance with the contract conditions and specifications for the sum of Rs. _____ (Rupees _____ only) or such other sums as may be ascertained in accordance with the said conditions.
3. I/We, undertake to complete and deliver the whole of the works within a period as specified in Appendix to the General Conditions of Contracts. I/We shall be under the obligation to pay the sum as stated in the said Appendix for the period that the works shall remain incomplete as compensation subject to the condition of contract relating to an extension of the time.
4. In the event of the tender being accepted, I/We further agree to the deduction of 10 % of the value of each running bill as stated in the said Appendix as Retention Money.

Yours faithfully,

CONTRACTOR

DRAFT BANK PERFORMANCE GUARANTEE BOND- ANNEXURE IV

In consideration of "ERNET INDIA." (hereinafter called The Company) having offered to accept the terms and conditions of the proposed agreement between and (Hereinafter called the said contractor(s) for the work (Hereinafter called the said agreement) having agreed to production of a irrevocable bank guarantee for Rs. (Rs. only) as a security/ guarantee from the contractors (s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

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

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

Dated the _____ day of _____

Signature of the Authorised Official)

(Name & Designation with Bank Stamp)

NOTE:

- (i) *The bank guarantee(s) contains the name, designation and code number of the officer(s) signing the guarantee(s).*
- (ii) *The address, telephone no. and other details of the Head Office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing Branch.*
- (iii) *The bank guarantee for Rs. 10,000 and above is signed by at least two officials (or as per the norms prescribed by the RBI in this regard).*

309

GENERAL CONDITIONS OF CONTRACT

1. INTERPRETATION

In construing these conditions, the specifications, the schedule of quantities, tender and Agreement, the following words shall have the meaning here in assigned to them except where the subject or context otherwise requires.

Employer: The term "Employer" or shall denote ERNET INDIA, NEW DELHI and any of its employees or representative authorized on their behalf.

- i) Architects: The term "Architects" or "Consultants" shall mean M/s. DESIGN HORIZONS whose registered office is situated at C- 85, Freedom Fighter Enclave, IGNOU Road, Neb Sarai, New Delhi-110068 or their authorized representatives/associate consultants or in the event of his/their ceasing to be the Architects for the purpose of this contract such other person/s the Employer shall nominate for the purpose.
- ii) Engineer: The term "Engineer" shall mean authorized Engineer appointed by EMPLOYER for day to day supervision of works at site as per tender terms.
- iii) Contractors: The term "Contractor", "Bidder" or "Tenderer" shall mean _____ (Name and address of Contractor) and his/their heirs, legal representatives, assigns and successors.
- iv) Site: The "site" shall mean the site located at 5TH FLOOR, BLOCK-C, IT PARK, SHASTRI PARK, DELHI, Where the works are to be executed on the site plan including any building and erections thereon allotted by the Employer for the contractor's use.
- v) Drawings: "Drawings" means the drawings referred to in the Specification and any modification of such drawings approved in writing by the Engineer and such other drawings as may from time to time be furnished or approved in writing by the Engineer. The work is to be carried out in accordance with drawings, specifications, the schedule of quantities and any further drawings, which may be given by the Employer/Architects/Consultants during the execution of the work.

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

In case any detailed Working/Fabrication/Shop Drawings are necessary, contractor shall prepare such detailed drawings and/or dimensioned sketches thereof and have it confirmed by the Employer/Architects/Consultants prior to taking up such work.

The contractor shall ask in writing for all clarifications on matters occurring anywhere in drawings, specifications and schedule of quantities or to additional instructions at least 10 days ahead from the time when it is required for implementations so that the Employer may be able to give decision there on.
- vi) "The Works" shall mean the work or works to be executed or done under this contract and shall include materials, apparatus, equipment, plant, fittings and other things for incorporation in the works.
 - a. "Contract " means the contract effected by the contractor's Tender and the Employer's acceptance thereof comprising (in addition to the Tender and Acceptance) the priced bill of Quantities and Schedules, Schedules of particulars (if any), Specifications and Drawings, these General Conditions of Contract, Special Conditions contained in or attached to any of the forgoing documents, any alterations agreed in writing between the parties before the formal acceptance of the Tender, all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.

- b. "Specification" means the specification annexed to or issued with these conditions and includes Indian or British or other approved standard specifications where required by the specification and where such a specification is not available, the specification approved by the Architect and the Engineer.
- c. "Approved" means approved in writing including subsequent written confirmation of previous verbal approval and "approval" means approval in writing including as afore said.
- d. "Market rate" means the rate as prevailing in the market and recommended by the Engineer and Architect and as approved by the Employer on the basis of cost of materials, labour, plant etc Exclusive of any tax, duty, octroi, 15% contractors profit etc. at the time of execution of work.
- e. "The Schedule of Quantities" or "Priced Schedule of Quantities" shall mean the schedule (or bill) of quantities as specified and forming part of this contract.
- f. "Act of Insolvency" shall mean any act such as defined by the Presidency Towns Insolvency Act or in Provincial Insolvency Act or any amending statutes.

2. SCOPE

The work consists of THE SUPPLYING & FIXING / PLACING THE MODULAR FURNITURE AT OFFICE PREMISES OF ERNET INDIA AT 5TH FLOOR, BLOCK-C, IT PARK, SHASTRI PARK, DELHI, in accordance with the "drawings" and "Schedule of Quantities". It includes furnishing all materials, labour, tools and equipment and management necessary for and incidental to the construction and completion of the work. All work, during its progress and upon completion, shall conform to the lines, elevations and grades as shown on the drawings furnished by the Employer/Architects/Consultants. Should any detail essential for efficient completion of the work be committed from the drawings and specifications, it shall be the responsibility of the contractor to inform the Employer/Architects/Consultants and to furnish and install such detail with Employer's/Architects'/Consultants' concurrence, so that upon completion of the proposed work the same will be acceptable and ready for use.

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

- a) The variation or modification of the design quality or quantity of works or the addition or omission or substitution of any work.
- b) Any discrepancy in the drawings or between the schedule of quantities and/or drawings and/or specification.
- c) The removal of any defective material from the site brought there on by the contractor and the substitution of any other material thereof.
- d) The demolition, removal and/or re-execution of any work executed by the contractor/s.
- e) The dismissal from the work of any persons employed there upon.
- f) The opening up for inspection of any work covered up.
- g) The rectification and making good of any defects under clauses hereinafter mentioned and those arising during the maintenance period (retention period).

507

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

Regarding all factory made products for which ISI marked products are available, only products bearing ISI marking shall be used in the work.

3. TENDERER SHALL VISIT THE SITE

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

4. TENDERS

The entire set of tender paper issued to the tenderer should be submitted fully priced and also signed at appropriate places as detailed in the Instructions to Tenderers.

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

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

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

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

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

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

The tenderer shall note that his tender shall remain open for consideration for a period of Ninety days from the date of opening of the tender.

5. AGREEMENT

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

6. PERMITS AND LICENCES

Permits and Licenses for release of materials, which are under Government control, shall be arranged by the contractor. The Employer may render necessary assistance, sign any forms or applications that may be necessary but shall not be responsible for actual procurement or for any delay in procurement.

It may be clearly understood that no compensation or additional charges can be claimed by the contractor for non receipt of any controlled materials in due time on this account or according to his own requirements.

The contractor shall at his own cost arrange for storage shed adequate for taking delivery and storing of the quantity of controlled materials released by the authorities or supplied by the Employer. The costs of storing, transporting, etc., of all materials including those under Government control are to be included by the tenderer in his quoted rates.

The Employer/Architects/Consultants shall be indemnified against all Government or legal actions for theft or misuse of controlled materials in the custody of the contractor.

7. TAXES AND DUTIES: The tenderers must include in their tender prices quoted for all duties royalties, cess, Service tax and sales tax or any other taxes or local charges as applicable. Taxes as applicable will be deducted from contractors running bills.

9. QUANTITY OF WORK TO BE EXECUTED

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

10. OTHER PERSONS ENGAGED BY THE EMPLOYER

The Employer reserves the right to execute any part of the work included in this contract or any work, which is not included in this contract by other Agency or persons, and contractor shall allow all reasonable facilities and use of his scaffolding for the execution of such work. The main contractor shall extend all cooperation in this regard.

11. EARNEST MONEY DEPOSIT AND RETENTION MONEY

EARNEST MONEY DEPOSIT: The Tenderer shall furnish, as part of his tender, earnest money deposit of 4,00,000/- for this particular work. This earnest money deposit shall be in favour of 'ERNET India' and may be in the form of Demand Draft. In case of Bank Guarantee (to be issued by Nationalized Bank), the same should valid for a period of 180 days from the original date of submission of bid. Instruments having fixed validity issued as

325

earnest money deposit for the tender shall be valid for 45 days beyond the validity of the tender. The earnest money deposit of unsuccessful Tenderers will be returned within 30 days of the end of the tender validity period. The earnest money deposit of the successful Tenderer will be retained. The earnest money deposit may be forfeited:

- (a) If the Tenderer withdraws the Tender after tender opening during the period of tender validity;
- (b) In the case of a successful Tenderer, if the Tenderer fails to Sign the Agreement and submit the additional 10 percent PBG as per clause 11.1 and within the specified time limit.

(C) EMD of successful bidder will be returned after deducting any sum due from the contractor on any account under this contract subject to the successful completion of the project, satisfactory acceptance of the complete project by ERNET India and handover of ready to use furniture / fixtures at project site along with removal of his materials, equipment, and labour force, temporary sheds/ stores etc, from the site by the contractor (excepting for a small presence required if any for the defect liability period as approved by the Clint). No interest is paid on EMD.

11.1 Performance Bank Guarantee:

- 11.1.1 The bidder, whose bid is accepted, shall submit the performance guarantee of 10% (Ten Percent) of the total project price to ERNET in the form of an irrevocable and unconditional bank guarantee on a nationalized Indian bank, as per Performa attached as Annexure-A within 7 calendar days of the issue of Letter of Intent (LOI) / letter of acceptance.
- 11.1.2 The guarantee amount shall be payable to ERNET in Indian Rupees without any condition whatsoever and the guarantee shall be irrevocable.
- 11.1.3 The performance guarantee shall be deemed to govern the following guarantees from the successful bidder, in addition to the other provisions of the guarantee:
- 11.1.4 The successful and satisfactory working of the items supplied in accordance with the specifications and other relevant documents.
- 11.1.5 The items supplied shall be free from all defects and designs, material and workmanship and upon written notice from ERNET, the successful bidder shall fully remedy free of expenses to ERNET all such defects as developed under the normal use of the said items within the period of contract with the bidder.
- 11.1.6 The performance guarantee is intended to secure the performance of the entire items and services by the bidder. However, it is not to be considered as limiting the damages stipulated in any other clause.

The performance guarantee will be returned to the successful bidder at the end of the warranty period or any other liability without interest.

- 11.1.7 The PBG of successful contractor will be released / refunded to the contractor, after deducting any sum due from the contractor on any account under this contract, 14 (fourteen) days after the end of defects liability period provided he has satisfactorily carried out all the work and attended to all defects in accordance with the conditions of the contract. No interest is allowed on PBG. PBG will be held for n+1 months where n is equal to number of months of liability or warranty period.

12. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

The contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the drawings, schedule of quantities and specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from and if the contractor finds any discrepancies therein he shall immediately and in writing, refer the same to the Employer/ Architects whose decision shall be final and binding. The contractor shall provide himself for ground and fresh water for carrying out of the works at his own cost. The Employer shall on no account be responsible for the expenses incurred by the contractor for hired ground or fresh water obtained from elsewhere.

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

The contractor shall supply, fix and maintain at his own cost, for the execution of any work, all tools, tackle, machineries and equipments and all the necessary scaffolding boarding, watching and lighting by night as well as by day required not only for the proper execution and protection of the said work but also for the protection of the public and safety of any adjacent roads, streets, walls, houses, building, all other erections, matters and things and the contractor shall take down and remove any or all such scaffolding. As occasion shall be required or when ordered so to do, and shall fully reinstate and make good all matters and things disturbed during the execution of works to the satisfaction of the Employer/ Architects/ consultants.

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

13. TIME OF COMPLETION, EXTENSION OF TIME & PROGRESS CHART

13.1 Time of completion: The entire work is to be completed in all respects within the stipulated period stated in the Appendix. The work shall deem to be commenced on the date of issue of purchase order. Time is the essence of the contract and shall be strictly observed by the contractor.

13.2 Extension of Time: If in the opinion of the architect/ ERNET the works were delayed for reasons beyond control of the contractor, the ERNET/architect may grant a fair and reasonable extension of time. Any such extension request to be made by contractor in writing at least 7 days before expiry of project completion period. However, the contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

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

503

14. LIQUIDATED DAMAGES

If the Contractor fails to complete the works within the time for completion stated in the tender due to his fault, ERNET India will recover 2% on the total cost of the project from the bidder for each week of delay. This recovery will be subject to an upper limit of 10%. At the end of the 5-week period, ERNET reserves the right to cancel the order in parts or complete and in the case all committed payment terms from ERNET India's side stands abrogated and the remaining work may be executed by ERNET through any third party on the cost and risk of contractor.

15. TERMINATION CLAUSE

The ERNET may at any time terminate the Contract by giving written notice to the bidder, without compensation to the bidder, if the bidder becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

16. ARBITRATION LAWS

Except, where otherwise provided for in the contract, all questions and disputes relating to the meeting of the specifications, designs, drawings, and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be settled within thirty (30) days (or such longer period as may be mutually agreed upon) from the date that either party notifies in writing that such dispute or disagreement exists, shall be settled under the Rules of India Arbitration and Conciliation Act, 1996. The venue of Arbitration shall be New Delhi, India. The arbitration resolution shall be final and binding upon the parties and judgment may be entered thereon, upon the application of either party, by any court having jurisdiction.

17. REMOVAL OF IMPROPER WORK

The Employer shall during the progress of the work have power to order in writing from time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the ERNET/Architects are not in accordance with specifications of instruction, the substitution or proper re-execution of any work executed with materials or workmanship not in accordance with the drawings and specifications or instructions. In case the contractor refuses to comply with the order the Employer shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental there to as certified by the Employer/ Architects shall be borne by the contractor or may be deducted from any money due to or that may become due to the contractor. No certificate, which may be given by the Architects, shall relieve the contractor from his liability in respect of unsound work or bad materials.

18. CONTRACTOR'S EMPLOYEES

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

No labourer below the age of Eighteen years or who is not an Indian National shall be employed on the work.

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

The contractor shall comply with the provisions of all labour legislation including the requirements of :

The Payment of Wages Act

Employer's Liability Act

Workmen's Compensation Act

Contract Labour (Regulation & Abolition) Act, 1970 and Central Rules 1971

Apprentices Act 1981

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

Indian Electricity Act (IE Act) and follow the rules.

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

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

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

19. MEASUREMENTS

Joint measurements taken by the contractor in presence of engineer will be entered in the measurement book & signed jointly. Based on the measurement book the contractor will raise his bills & and submit the same to employer. Architect representative shall check the measurements. During the checking contractor's representative must be present.

501

20. PAYMENTS

- (a) 60% payment shall be made by ERNET India after delivery and acceptance of all the items as per schedule of quantity as well as receipt of pre-receipted bill in duplicate.
- (b) 30% payment would be released after the completion of FIXING / PLACING THE MODULAR FURNITURE AT OFFICE PREMISES OF ERNET INDIA AT 5TH FLOOR, BLOCK-C, IT PARK, SHASTRI PARK, DELHI, in accordance with the "drawings" / "Schedule of Quantities" and handing over the site in a ready to use condition to ERNET along with acceptance of the work by ERNET in writing as well as receipt of pre-receipted bill in duplicate.
- (c) Final 10% would be released after the expiry of warranty period / any kind of liability period as per contract and receipt of certificate of satisfactory services issued by ERNET / Architect.

22. VARIATION / DEVIATION

The Employer shall have powers to order additional /non-tendered items to modify the tendered items, to vary the quantities of tendered items and not to execute certain items. All such orders shall be in writing. The rate or price of all such additional items/non-tendered/modified items will be worked out on the basis of rates quoted for similar items in the contract CPWD DSR 2012 rates or on CPWD DSR analysis of rates covering prevalent fair price of labour, material and other components and 15% contractor's profit approved by the architect/ owner. The tender rates shall hold good for any increase or decrease in the tendered quantities.

23. SUBSTITUTION

Should the contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the Employer/Architects in writing for any such substitution well in advance. For materials designated in the Schedule of Quantities and specification indefinitely by such term as "Equal", "Equivalent" or "Other approved" etc. specific approval of the Employer/Architects shall be obtained in writing. All such substitution may be subject to suitable price adjustment if considered necessary by the Architect/Employer.

24. COMPLETION OF WORK

On completion of the work the contractor shall clean all windows, doors, fittings, fixtures etc of all paint/polish/distemper splashes/dirt/dust etc, if necessary all hardware, clean inside and outside, all floor, stair-cases, and every part of the building and the surroundings. The whole of the work will be thoroughly inspected by the contractor and deficiencies and defects set right. On completion of such inspection the contractor shall inform the Employer in writing that he has completed the work and it is ready for inspection.

On receipt of such written intimation from the contractor, the Employer/Architect shall arrange to inspect the work and certify completion if the work has been completed satisfactorily. If not, the Employer/Architect shall inform the Contractor the deficiencies/defects in the work and the contractor shall attend to them properly and again intimate the Employer/Architect for further inspection.

The work shall not be considered as complete until the Employer/Architects have certified in writing that it has been completed satisfactorily without any apparent defects and the Defects Liability Period shall commence from the date of such certificate

No such certificates shall be issued until the contractor clears away and removes from the site all constructional plant, surplus materials, rubbish temporary works of every kind and leaves the whole of the site and the works clean and in a workman like condition to the satisfaction of the Employer/Architects.

25. DEFECTS AFTER COMPLETION

The contractor shall make good at his own cost and to the satisfaction of the Employer all defects, shrinkage, settlements or other faults, which may appear within 12 months after completion of the work. In default the Employer may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damages, loss and expenses shall be recoverable from him by the Employer or may be deducted by the employer, in lieu of such amending and making good by the contractor a sum equivalent to the cost of amending such work and in the event of the amount retained being insufficient, recover that balance from the contractor from the amount retained under clause together with any expenses the Employer may have incurred in connection therewith.

26. INDEMNITY AGREEMENT

Except as provided hereof contractor agrees to protect, defend, indemnify and hold company harmless from and against all claims, suits, demands, and causes of action, liabilities, expenses, cost, lines, and judgement of every kind and character, without limit, which may arise in favour of contractor employees, agents, sub contractor's or their employees on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

27. SITE ORDER BOOK

The contractor shall maintain a Site Order Book at the site of the works wherein the instructions of the architect/Project Manager or their representatives shall be recorded. The site order book shall be the property of the company and the instructions recorded therein shall be deemed to have the same force and effect as if they had been given to the contractor himself. The contractor or his representative on the site must sign the book in token of his having pursued the orders given therein.

28. HINDRANCE REGISTER

A Hindrance Register shall be maintained at the site of work wherein the contractor shall notify the items affected and the execution of work, the date on which the delay was cleared. These entries shall be initialed by the Project Manager/Architect as well.

499

29. **CONTRADICTION BETWEEN BOQ, SPECIFICATIONS AND DRAWINGS:**

In the event of conflicts between BOQ, Specifications and Drawings, the BOQ shall take precedence over the specifications and drawings. Keeping the general intent of the scope of work under said contract, the Architects/Consultants would interpret the requirements of the design intent & contract and their decision shall be final and acceptable to all concerns including the contractors.

30. **SECURITY**

Security of all the materials and labour at site shall be contractor's responsibility at his own cost.

31. **INSURANCE:**

The contractor shall arrange secure and maintain insurance as may be necessary and for all such amounts to protect his risks as detailed herein.

Appropriate insurance to cover the items for the transit period and till the time of its acceptance by ERNET India at the respective site is to be taken by the bidder. At the sole discretion of ERNET India, there will be an acceptance test conducted by the bidder in presence of ERNET India officials and/or its nominated consultants after installation of complete items. In case of any discrepancy in the supplied items and / or complete fixture and fitting offered. ERNET India may cancel the entire purchase order and return the items back to the bidder at bidder's costs and risks. Any loss or damage to the items, during handling, transporting, storage, and fixing, till such time the site is taken over by ERNET, shall be to the account of the contractor.

32. **INSURANCE FOR STAFF:**

The contractor shall insure all his staff working at site against injury, loss of life, etc., and claims of compensation will be entertained by the owners, employers in this regard. Contractor shall indemnify the owners/ employees against all such as above claims by his staff.

33. **CLEARANCE OF THE SITE**

The Contractor shall have to remove all dirt and other unwanted materials from site of work, before handing over HVAC installation to the Owner. The work shall not be treated as complete in all respects unless these requirements are fulfilled by him. In the event of the Contractor failing to do so, the Consultants and the Owner shall have the right to get the site cleared at the Contractor's expenses.

34. ESCALATION

The rate quoted shall be firm throughout the tenure of the contract (including extension of time, if any, granted) and will not be subject to any fluctuation due to increase in cost of materials, labour. Any increase or decrease in government regulated state or central taxes shall be paid or deducted by the client.

Seal & Signature of the Contractor

APPENDIX TO GENERAL CONDITIONS OF CONTRACT

1	Period of Completion	:	5 weeks from the date of purchase order
2	Defects liability Period (D.L.P)	:	12 (Twelve) months from the date of acceptance of work /handing over of site to ERNET.
3	Date of Commencement	:	Started from date of P. O .
4	Liquidated Damages for Delay	:	As mentioned in the LD Clause
5	Period of final measurement	:	15 days from submission of final bill.

SIGNATURE OF CONTRACTOR.

SPECIAL CONDITIONS OF CONTRACT

1. GENERAL:

These Special conditions of Contract shall be read in conjunction with the General Conditions of contract, Specifications of work, Drawings and any other documents forming part of this contract wherever the context so requires.

Notwithstanding, the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the contract so far as it may be practicable to do so.

Where any portion of the General Conditions of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, then unless a different intention appears, the provisions of the Special Conditions of Contract, shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnance, or variance, prevail.

2. WHOLE WORK TO BE COMPLETED IN THE SPECIFIED COMPLETION PERIOD:

The whole work including all extra and additional items is to be completed in the completion period stated in Appendix to conditions of contract and the Contractor will be required, if necessary to work overtime to fulfill the Architect's instruction to complete the work by the Contract date. No extra will be allowed on the Contract Sum for such overtime work.

3. INTERPRETATION OF TERMS:

495
Whenever the words "directed", "as required", "selected", or words like effect are used, it is to be understood that the selection, direction or requirement of the Architect are intended.

The words "approved", "satisfactory" or words of like import shall mean "approved by" or "satisfactory to" the Architect, whose approval must first be obtained before the materials ordered or the works to which the words refer to are put in hand.

The word "allow" shall mean that the contractor shall include in his rates for the particular matter referred to.

The words "as described" shall mean the description in the trade preambles, general preambles, specifications, general instructions etc.

4. ORDER OF WORK:

The Architect reserves the right to fix the order in which the various items of work involved in this contract are to be executed and contractor shall comply with the same. There shall be no extra claims on account of this.

5. SAMPLES:

Before ordering such materials, the Contractor shall get samples of the materials approved from the Architect well in time. The contractor shall furnish well in time before work commences, at his own cost, any samples of materials or workmanship that may be called for by the Architect for his approval or rejection and any further samples in case of rejection until such samples approved. Such samples when approved shall be the minimum standard for the work to which they apply. In case of items like suspended ceiling, timber partitions, etc., typical sample panels or prototypes shall be erected in position for approval before undertaking work. Rates quoted shall cover for such preliminary work.

6. WORKMANSHIP:

The work involved calls for a high standard for workmanship combined with speed.

7. REJECTED WORKMANSHIP OR MATERIALS:

Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or deteriorated, must be removed immediately from the site and replaced at the contractor's expense, as directed.

8. DISCREPANCIES:

The several documents forming the contract are to be taken mutually explanatory of one another. In the event of any Errors, Omissions and Discrepancies, the same shall be dealt as under:

- a) In case of errors, omissions and /or disagreement between written and scaled dimensions on the drawings and specifications etc., the following order of precedence shall apply.
 - i) Between scaled and written dimension (or description) on a drawing, the latter shall be adopted.
 - ii) Between the written or shown dimensions in the drawings and the corresponding one in the specification, the former shall be taken as authenticated.
- b) In case of discrepancy between the schedule of quantities, the specifications and /or the drawings, the following order of preference be observed.
 - i) Description in Schedule of Quantities.
 - ii) Particular Specifications and special condition, if any

iii) Drawings

iv) Indian Standard Specifications of B.I.S.

- c) In case of difference between the rates written in figures and the rate in words shall prevail.
- d) Between the hardcopy and soft copy copies of the tender, the hardcopy shall be taken as authenticated.
- e) In case of omissions and/or doubts or discrepancies in any of the items or specifications, a reference shall be made to the Engineer whose elucidation, elaboration or decisions approved by the architect shall be considered as authentic.

The contractor shall be held responsible for any error that may occur in the work through lack of such reference and precaution.

9. QUOTED RATES:

The rates quoted by the contractor shall be held to include for providing and fixing all scaffolding, conveyance and delivery, unloading, carrying in storing, hoisting, all labour, setting, fitting and fixing in position making, setting, cutting, waste, return of packing and all materials and labour and everything else necessary for the proper completion of each item of work to the approval of Architect and for Establishment Charges, overheads and profits. The Contractor shall provide at his expense all labour, materials and things required by the Architect or his representative for testing and measuring the work, for weighing, testing the efficiency of any portion of the work, all planning gangways etc., necessary for affording access to every part of the work.

1. **WATER AND ELECTRICITY:** The client shall provide for both water and electricity at one point in the premises.

2. SITE CONDITIONS

- 2.1 No housing accommodation is available at site of work. The contractor should make his own arrangements for the same outside the campus of property of DMRC.
- 2.2 The contractor should comply with the terms and conditions for execution of work imposed by DMRC & should make themselves aware of it before filling in the document.
- 2.3 The rubbish produced during execution should be removed from time to time & shall not be kept lying at/around the site.
- 2.4 The contractor must ensure that no dust pollution occurs during execution of work.
- 2.5 The contractor should work in tandem with other contractors employed by ERNET INDIA for activities beyond their scope so as to complete the work as per approved schedule.
- 2.6 Any damage done by the contractor to the existing work shall be made good by him at his own cost.

3. Supervision

The Contractor shall depute **QUALIFIED & EXPERIENCED** engineers/supervisors for carrying out work at site till handing over of the project

493

ADDITIONAL SPECIFICATIONS & CONDITIONS
For Modular Office Furniture Partitions & Storage Unit

1.0 General

The work shall be executed and measured as per metric dimensions given in the Schedule of quantities, drawings etc. (F.P.S. Units wherever indicated are for guidance only).

2.0 Wherever any reference to any Indian Standard Specification occurs in the documents relating to this contract the same shall be inclusive of all amendments issued or revisions thereof if any, up to the date of receipt of tenders.

3.0 Wood Work

The contractor shall produce cash vouchers and certificates from standard kiln seasoning plant operator about the timber section to be used on the work having been kiln seasoned by them, failing which the same would not be accepted as kiln seasoned.

The contractor will also arrange stage-wise inspection of the furniture at factory to the ERNET INDIA / Engineer-in-charge or his authorized representative. Contractor will have no claim if the furniture brought at site is rejected by ERNET INDIA / Engineer-in-charge in part or in full lot due to bad workmanship/quality. Such furniture will not be measured and paid and the contractor shall remove the same from the site of work within 7 days after the written instructions in this regard are issued by ERNET INDIA / Engineer-in-charge or his authorized representative.

4.00 Testing of Materials

The contractor shall produce all the materials in advance so that there is sufficient time for testing and approving of the material and clearance of the same before use in work.

Note:

- i) The above components are mentioned to give the applicants only in idea of the type of work involved. The Employer will have the option to exclude any of the above items at the time of purchase or include any other item as per their requirement.
- ii) Furniture (Modular type) will be a combination of Wooden, Aluminium and steel fabrication. Steel & Aluminum components will have epoxy/powder coated paint finish/or any other finish specified by Consultant.
- iii) The Employer will have the option to change the material of construction of the components of work.

SPECIAL CONDITIONS

1. The contractor shall submit a detailed programme in the form of CPM/ PERT/ BAR chart to the ERNET INDIA within 4 days of award of work and shall be got approved from him. The programme chart should include the following:
2.
 - a) Network CPM/ PERT/ BAR diagram prepared as per existing practice.
 - b) Programme for procurement of materials by the contractors.
 - c) Programme of mobilization of machinery/ equipments and their deployments.
 - d) Time schedule for the requirement of material to be supplied by the department.

The programme chart will have to be updated on weekly basis and will be submitted to ERNET INDIA regularly.

The approval by the ERNET INDIA of such programme or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibility under the contract. This is without prejudice to the right of the ERNET INDIA to take against contractor as per terms and conditions of the agreement.

3. All tools, plant and machinery provided by the contractor shall, when brought to the site, be deemed to be exclusively intended for construction and completion of this work and contractor shall not remove the same or any part thereof without the consent of the ERNET INDIA / Engineer-in-charge.
4. The rates quoted by the contractor shall be all inclusive keeping in mind the specifications, additional and special conditions in view and nothing extra shall be payable whatsoever, unless otherwise specified.
5. Cess @ 1% of Gross value of work done shall be deducted from each bill as per Delhi Building & other Construction Workers Welfare Cess Act 1996.
6. VAT, Income Tax and Education Cess etc. shall be deducted from each bill as per norms.
7. The contractor shall make his own arrangements for obtaining electric connections if required and make necessary payment directly to the department concerned.
8. Other agencies doing Works related with this project will also simultaneously execute the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying burying in the work pipes, cables, conduits, clamps, boxes and hooks for fan claims etc. as may be required for other agencies conduits for electrical wiring / cables will be laid in a way that they leave enough space for concreting and do not adversely effect the structural members. Nothing extra over the agreement rates shall be paid for the same.
9. some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. the contractor shall be bound to follow all such restrictions / instructions and nothing extra shall be payable on this account.
10. 1% water charges shall be deducted if the water supplied by the department.
11. The sketches / images of all items are appended, the same may be referred for guidance.

497

GENERAL SPECIFICATIONS

1.0 SCOPE

The Scope of Furniture shall consist of fabrication, assembling, providing Modular furniture including supply, preparation for design drawings; erecting one full size complete in all respects a sample piece for each item and obtain approval thereof before undertaking mass production and placing in position at site.

Scope of this contract for furniture fabrication, supply, installation at site etc. Works shall be executed in a well-coordinated and professional manner at a fully functional office, it is expected that the works shall be carried out with diligence and due care so as not to create any undue disturbance, noise etc.

2.0 BRIEF SCOPE OF WORKS

All the works shall be executed strictly in accordance with the item Description and Specification and drawings. However, in the absence of the specification herein enclosed for the items, BIS/BIFMA Specification/Standards shall be followed along with the relevant item description, technical specification and drawings.

3.0 SPECIFICATION FOR WORK, QUALITY AND WORKMANSHIP

- 3.1 The specifications are intended for the general description of the work, quality and workmanship. The specifications are not, however, intended to cover the minute details and the work shall be executed according to the specification given herein or in its absence the relevant CPWD/BIS/BIFMA specification/standards or the best practice recommended by relevant manufacturers or the best trade practices or to the recommendations of relevant Indian Standards / International Practices or according to the instructions of the Engineer -in - Charge/Consultant.
- 3.2 All the materials of the project shall confirm to the approved makes of materials specified. The procurement of various materials shall be either from the manufacturers or their main authorized dealers to ensure that no duplicate/spurious makes are used in the supplied items at site with due endorsements by the actual dealers/vendors/sellers. Notwithstanding all the above, the contractor shall be held responsible for the execution of works and use of proper best available quality of materials as per the tender specifications.
- 3.3 Wherever reference to BIFMA/CPWD/Indian Standard Codes and practices is made they shall be referred to the latest edition/revision of the same, issued up to 7 days prior to the submission of tender.
- 3.4 The Bidder must obtain clarification, if any; regarding the specifications and the tender documents in writing with the Engineer-in Charge in respect of interpretation of any portion of these documents within the time specified in General Conditions of Contract of the Bid document before submission of the Bid.

4.0 TESTS OF MATERIAL/WORKMANSHIP

- 4.1 The extent quality control and quality of workmanship shall be as specified in BIFMA specifications/IS codes/International Codes/best trade practices.
- 4.2 All testing charges of required tests for all materials as desired by the ERNET INDIA / Engineer-in-charge shall be paid by the department in case sample passes its specified criteria otherwise shall be born by the contractor at the Contractor's cost.
- 4.3 The cost of sample for testing, sampling charges and other incidental charges like carriage, packing etc. shall be born by the contractor, if failed do so the same shall be carried out and

paid by the department which will be recovered at the double rate of expenditure incurred for the same.

5.0 DRAWINGS

- 5.1 Drawings are listed and enclosed with this Tender Document shall form a part of this specification and supplement the required specified herein. The Tender drawings are preliminary and meant for tender purposes only. These drawing provide a general idea about the work to be performed under the scope of this contract and are by no means final drawings showing the full range of work under the scope. Work has to be executed strictly according to drawings duly approved by Engineer-in Charge as 'Related for Construction' (or 'Good for Construction') drawings with additions, alternations and modifications made from time to time as required by the Engineer-in Charge during actual execution.
- 5.2 Any technical clarifications required regarding the drawings/specifications during the progress of work shall be obtained from the 'ERNET INDIA / Engineer-in-charge'.
- 5.3 The actual terminal point of scope of works under this contract shall be as shown in 'Good for Construction' drawings.
- 5.4 The work by the contract shall be in strict accordance with the drawings and no deviations shall be permitted without the written approval of the ERNET INDIA / Engineer-in-charge, if so required.
- 5.4 All manufacturing and fabrication work in connection with item to be undertaken by the contractor after the approval by the ERNET INDIA / Engineer-in-charge. The contractor may suggest any changes in the design which are necessary to make the equipment conform to the provisions and intent of the contract and such changes will again be subject to the prior approval by the ERNET INDIA / Engineer-in-charge shall never relieve the Contractor of any of his contractual responsibilities and liabilities under the contract. The following shall be noted :

IS 2202	Wooden flush door shutters (solid core type) particle board face panels and hard (part 2) board face panels.
(Part-I)	Operations and workmanship
(Part 2)	Schedule
IS 2380	Methods of test for wood particle boards.
IS 5437	Figured, rolled and wired glass
IS 14900	Transparent float glass-specifications.
IS 277	Galvanized steel sheets (Plain or corrugated).
IS 737	Specification for wrought aluminium and aluminium alloy sheet and strips for general engineering purpose.
IS 801	Code of practice for use of cold formed light gauge steel structural members in general building construction.
IS 7178	Technical supply conditions for tapping screw.
IS8183	Bonded mineral wool.
IS 12118	Two parts polysulphide.
IS 12823, 1990	PLB, Pre-laminated particle board.
IS 13871, 1993	Powder coating specification.
IS 3087, 1985	Specification for wood particle boards for general purpose.
IS 2046, 1995	Decorative thermosetting synthetic resin banded laminated sheets specification.

INTERNATIONAL STANDARDS

AS1365	Standards for steel manufacturing
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AS 1397	A steel sheet & steel hot-dipped zinc coated or aluminium zinc coated.
AS/NZS 2728	Pre finished/pre painted sheet metal product for interior/exterior building applications-performance requirement.
AS3566	Self drilling screws for building and construction industry.

6.0 WATCH AND WARD

The contractor shall be responsible for watch and ward of all the works, equipment and various materials till complete handing over the works.

TECHNICAL SPECIFICATIONS

1.0 A MODULAR FURNITURE (PANEL BASED TYPE)

- 1.1 It shall consist of framework, finishing panels and wire ways; partition shall be sufficiently rigid and stand independent of support from wall or indentation on the floor. System offers partitions which are compact yet truly tile based, wherein the finished tiles 9mm thk can be removed and interchanged and wiring inside can be accessed by just removing the tiles, without disturbing the rest of the workstation.
- 1.2 Framework shall be as per manufacturer's specification, drawings & nomenclature of the items.
- 1.3 Miscellaneous: Top Runners & Bottom skirting are finished in Epoxy power baked. Vertical ends are covered with metal/aluminium trims. Junctions of vertical trims and top runners shall be rendered smooth. Junctions/Corner posts may be one/two/three/four way to meet different configuration as per layout.
- 1.4 Pre-treatment : All metal components shall be subjected to 7 tank pre-treatment of degreasing, caustic etching, nitric acid de-smutting, chroming and water rinse and drying. Powder coating of metal components up to 40-50 micron thickness: Powder spraying, baking in oven for at least 40 minutes at 180°C-200°C, cooling and inspection.
- 1.5 Panels: Modular face panels of required thickness shall be as per design, drawing & specification duly approved by ERNET INDIA / Engineer-in-charge.
- 1.6 Wire ways: Wire ways with inlet for wires from floor/sides/or even from top provisions to be in built for out-lets of modular switches over/below the table tops or at the skirting level.
- 1.7 Table tops: Table tops shall be as per design, drawing and specification duly approved by ERNET INDIA / Engineer-in-charge.
- 1.8 Gable-ends: Wherever required on either end shall be part or partition, capable of supporting tabletop.

2.0 STORAGES

2.1 CABINETS UNDER WORKSTATION

Free standing Drawer Cabinet under the table top of a Work Station shall be fabricated out of 0.8-1.2mm thick CRCA, 445mm width & height of 610mm, having one pencil drawer, one drawer and a filling unit with necessary dockets. All openable units shall be openable on a one lock key basis.

2.2 FILING ALMIRAHS

Independent, free standing, filling storage for a total height of 1350mm x 450mm depth x 900mm wide shall be made of CRCA steel & sliding door shutter all finished in Powder coated of approved shade. Provisions of top cover may be in timber veneer finish/pre-laminated particleboard of approved shade.

2.2.1 RAW MATERIALS

For chemical composition, tensile properties, bend test, surface, flatness, hardness, free from lamination, flaws, roll mark, dents and lines shall be as per IS:513 for Cold Rolled Annealed (CRCA) steel of thickness 0.8-1.2mm thick.

2.3 LOCK: Openable with single lock.

3.0 PAINTING

3.1 "Painting and Pre-treatment shall be done as here under:

3.2 pre-treatment consisting of 4 step, 7 tank anti-corrosion treatment;

3.3 Degreasing of oils, by cleaning with alkaline chemicals, caustic soda, rod ash, tri-sodium phosphate and sodium meta silicate at controlled temperature (IS: 6005).

3.4 Pickling a process of acidic cleaning for the removal of rust and scales shall be done by using sulphuric acid solution, as per (IS: 6005).

3.5 Phosphating and passivation, a process to protect steel from any corrosive action. A layer of Phosphate shall chemically bind to the metal surface that shall ensure proper adhesion of the paint film and prevent peeling off of the paint under all working conditions. (IS: 6005 & IS: 3618).

3.6 Final paint consisting of dip or spray application with one coat of stove enamelled paint to at least 50 micron thickness and shall conform to with stand test as per IS :101.

3.7 Following tests shall be conducted on a regular and scheduled basis :

Test for	Specification Requirement	Testing by	As per standard
DFT	40-60	ELCOMETER OR DFT METER	ASTM : (D) 1186
GLOSS AT 60°	7±5 UNITS	GLOSS METER	ISL :2813 ASTM D) 523 DIN 1 67530
SCRATCH HARDNESS	3 KGS.	SCRATCH HARDNESS TESTER	IS : 101 (V/II) BS : 3900(E2)
IMPACT RESISTANCE	275 KGS CM. (150-258)	IMPACT TESTER	BS : 3900 (E3) ASTM (D) 2794 JISK : 5400
GROSS CUT ADHESION	1X1MM OR GT=0	-----	ISO : 2409 ASTM :3002 ASTM :3359 DIN : 53161 JISK : 5400
FLEXIBILITY	6.5MM	CYLINDRICAL MANDREL BENDING TESTERS	IS:101 (V/II) ISO :1519 BS:3900 (E1) ASTM D) 522 DIN : 53152
ERICHSEN	8MM	ERICHSEN CUPPING TESTERS	IS:101 JISK : 5400
SALT SPRAY	1000 HRS.	SALT CHAMBER	SPRAY IS:101 (V/I)

NOTES:	IS	:	India standard
	ISO	:	International Organization for standards
	BS	:	British Standard
	ASTM	:	American Society for Testing Material

Further details as required are specifically brought out in the relevant schedule of items.

4.0 CHAIRS

- 4.1 Chairs consisting of Seat, Back, Hand rests, Vertigo Support, Gas lift mechanism, five prong support, Castors etc. shall form an ergonomically designed chair and conforming to best practices of BIFMA and likes.

4.1.1 Seat and Back

Seat and back shall have a base out of moulded ply board to shape & size of 450x530 mm (minimum), padded with 50mm polyurethane foam of high density (45 ± 2 kg/cum hardness of 20 ± 2 kgs, moulded to ergonomic shape. The foam shall be suitably glue fixed to the seat and back and together shall be covered with marking cloth and upholstered in a approved fabric. The back sides of seat & back shall be covered with ABS.

- 4.1.2 Seat shall be securely fixed to support system and shall be checked for safety of stability.

4.1.3 Hand Rests :

Hand rests shall be cyclic, hexagonal ring shaped formed of MS reinforced polyurethane. It shall be suitably securely fixed to seat and/or back.

4.1.4 Supports :

Seat support shall have permanent contact mechanism, with 360 degree revolving type and back tilt to 14 degree (max) tilt tension adjustment etc. vertical support shall be of well proven gas lift mechanism with adjustable height. Base of five pronged nylon pedestals and fitted with win wheeled castors.

4.2 TEST SPECIFICATION AS REQUIRED FOR CHAIRS AS PER BIFMA (Business & Institutional Furniture Manufacturer's Association).

I. Back Durability Test – Cyclic

To with stand fatigue, wear and stress on Tilting system of chairs by subjecting to a load of 45 kg. On seat & back, pulled and pushed with a load of 34 kg. For 1, 20,000 cycles.

II. Seating Impact test – cyclic

To with stand an impact test by dropping 57kg. From a height of 51mm on a seat for 1, 00,000 cycles @ 30 drops per minutes.

III. Base Test – Cyclic

To with stand the shock loads of 600 kg applied for 1 minute on pedestal base and a load of 400 kg applied till deflection stabilizes.

IV. Castor Durability Test:

Castors to withstand wear stresses by conducting a test of 136 kg placed on seat, then pulled and pushed to/fro with a stroke length of 762mm for a 1,00,000 cycles @ 9 strokes per minute.

V. Castor Retention Test

To withstand Castor retention with a force of 2.5 kg applied on castor to remove it from vertical pin.

VI. Castor-wheel pull-out Test

Castor to withstand a pull-out test of 100 kg applied on castor to remove it from vertical pin.

VII. Castor Breakability Test

Castor to withstand breakability test of 3.5 kg dropped on castor assembly from a ht. of 500mm.

4.3 MATERIAL SPECIFICATION FOR CHAIRS

I. Steel:

Cold rolled steel : MS sheet of thickness 0.63mm-2.00mm (IS: 513)
 Hot rolled steel : MS sheet thickness 2.5-3.15mm (IS 10748, Gr.I)
 Hot rolled steel : MS flat thickness >3.15mm (IS: 2062)
 MS ERW tubes : for tubular component (ISD: 7138)

II. Fabric:

The rate of the fabric shall not be less than Rs.350 per metre. The colour of the fabric shall be got approved from the Engineer-in-Charge.

		For span of 1.2 metres	
Acrylic	100%	Weight	380 gms/M
Polyester	100% (fibre dyed)	Weight	330 gms/M
Poly-Viscose	(77%:33%)	Weight	330 gms/M
Poly-Propylene	100%	Weight	230 gms/M
Poly-Propylene	Super Bulk	Weight	230 gms/M

III. Powder Coating

All MS/CRCA components are Epoxy-polyester powder coated using the seven chamber pre-treatment process, consisting of, Degreasing, Water rinse, De-rusting, Water rinsing, Phosphating, Water rinsing, Passivations.

Powder coat thickness 40-45 DFT
 To withstand 1000hours of salt spray test
 Scratch resistance of 4 kg. (BS: 3900/E2)
 Impact Resistance of 150 kg /cm (BS: 3900/E3)

5.0 PARTICLE BOARD/BRANDED PARTICLE BOARD

- a) The Particle Board shall be of exterior grade comply with ISI specifications and shall be one made from wood particles and flat pressed with a synthetic resin and/or other organic binder. Thickness shall vary as shown on drawings.
- b) Particle Board shall be used externally or internally in any essentially damp surroundings.
- c) Pre-laminated/ Post-laminated particle board/MDF board should have decorative lamination on exposed surface & balancing lamination on unexposed surface or both sides decorative lamination as per approval of the competent authority.
- d) Manufacturer and reference for Particle Board shall be subject to approval.
- e) All exposed edges of pre-laminated particle board/MDF board should be sealed with PVC edge banding/ leaking of approved material.

6.0 FINISHES

6.1 Melamine Finish

Timber works shall be finished by the application of two coats of an acid catalyzed clear lacquer (melamine) wherever it is indicated in the drawing. The finish shall be satin, semi-gloss finish and shall be carried out as follows:

- a) The base shall be sand prepared to the desired finish and coated with a colour tinge to give an even coat to the veneer surface.
- b) After the base, first coat of lacquer shall be applied evenly by a soft cloth or by spray to give an even coat to the veneer surface.
- c) After the first coat has fully dried, the lacquer surface shall be rubbed down in the direction of the veneer grain with very fine glass paper and left completely smooth and clean before the second coat is applied.
- d) When the second coat of lacquer is fully dry, the surface shall be rubbed down in the direction of veneer grain with very fine wire wool dipped in a petroleum based wax to give lubrication.
- e) Twenty four hours after completion of this process the lacquered veneer surface shall be finished by burnishing with a soft cloth to an approved finish.

6.2 Paint and Polishing

- a) All material required for the works shall be of a specified and approved manufacture, delivered to the site in the manufacturer's containers with the seals, etc. unbroken and clearly marked with manufacturer's name or trademark with a description of contents and colour. All materials are to be stored on the site of works.
- b) Spray painting with approved machines will be permitted only if prior written approval has been obtained from the ERNET INDIA / Engineer-in-charge. No spraying will be permitted in the case of neither priming coats nor where the soiling of adjacent surface is likely to occur. The nozzle and pressure to be so operated as to give an even coating throughout to the satisfaction of Owner. Thinning of paint made for brushing will not be allowed.
- c) Wood preservation shall be Slingarm or any other equal/approved impregnating wood preservative and all concealed woodwork shall be so treated.
- d) All brushes, tools pots, kettles, etc. used in carrying out the work shall be clean and free from foreign matter and are to be thoroughly cleaned out before being used with a different type of classes of material.

- e) All iron or steel surface shall be thoroughly scrapped and rubbed down with wire brushed and shall be entirely free from rust, mill scale, etc. before applying the priming coat.
- f) Surface of previously painted metal which are to be repainted shall be cleaned & flatted down as described in surfaces or previously painted woodwork. Minor areas of defective paint and any rust/loose scales shall be removed completely by chipping, scrapping and wire brushing back to the bare metal and touched in with primer as described.
- g) Surfaces of new woodwork which are to be painted are to the rubbed down knotted and stopped to the approval of the competent authority.
- h) Surface of previously painted wood work which are to be repainted shall cleaned down with soap and water, detergent solution or approved solvent to remove dirt, grease, etc. whilst wet the surfaces shall be flatted down with a suitable abrasive and then rinsed down and allowed to dry. Minor areas of defective paint shall be removed by scrapping back to a firm edge and the exposed surface touched in with primer as described and topped with putty. Where woodwork has been previously painted or polished and is to be newly polished, the same shall be prepared with scrapping, burning off or rubbing down.

LATEX FOAM RUBBER

6.3.1a) Material and Workmanship

- i) Latex foam rubber shall be manufactured from foamed rubber latex together with added compounding ingredients of such nature & quality that the finished product complies with specification requirement. Any special characteristics other than those prescribed in the specifications, which may be desired for specified application, shall be specified in the specification as they may influence the choice of ingredients used.
- ii) Due to manufacturing conditions the material may have to be altered or repaired. The repaired or altered material shall be acceptable under the specification provided the material used in such repairs or alterations is of the same composition and quality as the original product provided such alterations do not affect the serviceability provided in this specification.
- iii) Latex foam rubber products should be directly moulded/otherwise shaped or fabricated. When a product is fabricated, all joints should be at least as strong as the foam rubber itself.
- iv) Latex foam rubber of grade B, C or D shall be used in the back/arms and grade D, E or F shall be used in the seat.
- v) Latex foam rubber shall be ISI marked.
- b) Colour: The colour of the latex foam rubber products shall be as specified.
- c) Odour: The latex foam rubber products shall have no objectionable.
- d) Dimensions:

The actual length and width of a latex foam rubber product should be greater than the nominal dimensions by a small amount in order to admit of the foam rubber being slightly compressed by a cover made to the nominal dimensions. It is advised that this amount should be sufficient to compensate for the negative manufacturing tolerances given in ISI 1741-60.

- e) Packing: The latex foam rubber productions shall be packed properly to avoid any damage to it.

f) Hardware:

Hinges, locks, latches, door tracks etc. shall be as specified & as far as possible of specified manufacture. In case of any variation in quality, the substitute shall be equal to or better than the originally specified and the sample should be submitted to the Owner for prior approval.

7.0 FIRE RETARDANT PAINTS ON WOOD WORK

All woodwork exposed or unexposed done by the Contractor shall be coated in a colourless fire retarding paint of brand approved by C.B.R.I. and fire authorities. The painting work shall be done by soft brushes, and by pencil brushes in corners etc. The rate would include providing all material brushes etc. no extra payment would be made for the same.

7.0 Any work not specifically brought out above in Technical Specification, are adequately covered, wherever required, in relevant schedule of items and the same shall be followed.

8.0 QUALITY ASSURANCE : General Requirements

8.1 This part of the specification covers the sampling, testing and quality assurance requirement (including construction tolerances and acceptance criteria for all works and structures covered in this specification for Modular Furniture. This part of the technical specification shall be read in conjunction with other parts of the technical specification.

8.2 All tests required for all materials (bought by contractor) and workmanship shall be done / got done by the contractor, . The unit rate for respective items shall include the cost for all works, activities, equipment, instrument, personnel, material etc. whatsoever associated to comply with sampling (excluding testing charges) and quality assurance requirement including construction tolerances and acceptance criteria and as specified in subsequent clauses of this part.

8.3 The contractor shall provide the facilities whatsoever required and also bear all cost for the sampling (excluding testing charges) and quality assurance in the field and in the laboratory. The contractor shall carried out all sampling and testing in accordance with the relevant Indian Standards and or international Standards/technical specifications provided if any. Where no specific testing procedure is mentioned, the tests shall be carried out as per the best prevalent engineering practices and to the directions of the ERNET INDIA / Engineer-in-charge.

8.4 The contractor shall maintain records of all inspection and testing, which shall be made available to the ERNET INDIA / Engineer-in-charge. All records shall be submitted, unless specified otherwise, as per the format developed by the contractor and approved by the ERNET INDIA / Engineer-in-charge.

8.5 Work found unsuitable for acceptance shall be removed and replaced by the contractor, as per technical specification requirements and to the satisfaction of the ERNET INDIA / Engineer-in-charge.

8.6 Representative samples shall be procured by the contractor (from approved vendors) and submitted to the ERNET INDIA / Engineer-in-charge shall not relieve the contractor of his responsibility, for their conformance to the specification, the requisite quality and performance of material.

8.7 All equipment and instruments shall be calibrated before the commencement of tests and then at regular intervals, as directed by the ERNET INDIA / Engineer-in-charge. If the ERNET INDIA / Engineer-in-charge so desires, the contractor shall arrange for having the

481
instructions/equipment get tested for their calibration, at an approved laboratory and the test report shall be submitted to ERNET INDIA / Engineer-in-charge.

- 8.8 If any facility for testing or the trained personnel for conducting test is not available with the contractor, then the contractor may get the test done from reputed/approved laboratory or out source the personnel, as approved by the ERNET INDIA / Engineer-in-charge at his own cost.

LIST OF APPROVED MAKES OR MATERIALS FURNITURE WORKS

S.No.	Material	Approved Make
1.	Paint	1)ICI 2)Asian Paints 3)Berger 4)Jenson & Nicholson 5)Nerolac
2.	Float Glass/ toughened glass	1. Modi Guard 2. Indo Asahi 3. Pilkington 4. St. Gobain
3.	Expansion Bolts	1. Hilti 2. Fischer
4.	Glazing Sealant	1. Dow Corning 2. GE Sealant 3. Wacker
5.	Plastic Laminated Board/medium Density Fibre Board	1. Nuwad 2. Duratuff 3. Shirdi
6.	Resin based Adhesive	1. Fevicol 2. Vamicol
7.	Pin-Up Board	1. Action Tesa 2. Century board 3. Greenlam 4. Marino
8.	Fire Retardant Paint	1. Navair 2. Viper
9.	SS/Chrome Coated Hardware	1. Earl Bihari Pvt. Ltd. (EBCO) 2. Dorset 3. Ar Kay
10.	Laminate	1. Action Tesa 2. Century board 3. Greenlam 4. Marino
11.	Aluminium Alloy Extruded section	1. Hindalco 2. Indalco 3. Jindal
12.	Post Form Laminate	1. Action Tesa 2. Century board 3. Greenlam 4. Marino
13.	Fabric Protection	Fabguard / Scotchguard as approved
14.	Locks	Godrej / Dorset ML-101 or equivalent with separate keyhole ring.
15.	Pivots, Handle bars etc.	Dorma, Dorset or equivalent in SS finish
16.	Brass/powder coated Hardware	Jarods, Palladium, Parmar, Earl Bihari / as approved
17.	Pre-laminated Particle Board (Exterior Grade)	1. Action Tesa 2. Century board 3. Greenlam 4. Marino
18.	Loose Furniture	1. Godrej

		2. Hermanmiller 3. Vitra or Equivalent
19.	Modular Furniture	1. Godrej 2. Hermanmiller 3. Vitra or Equivalent

NOTES :

1. Make of any other equipment/ material not mentioned above shall be got approved from the Architects/ Owners before execution.
2. Relevant catalogue to be submitted along with the offers.
3. Relevant Test Certificates to be produced for various equipment & material during billing process.
4. All basic rates quoted by the tenderer shall be inclusive of all applicable taxes.
5. If the market rates are more than the basic rate mentioned in tender, difference amount shall be paid by Client. If the market rates are less than the basic rates mentioned in the tender difference amount shall be deducted in contract bills.

SCHEDULE OF QUANTITIES

Notes:

All Dimensions / sizes are in millimeters

The Sample of furniture to be got approved by ERNET India.

Approved make / brand of furniture : Godrej Hermann Miller/ Vitra or equivalent

The furniture Contractor should coordinate with electrical contractor for providing electrical switches/sockets in the modular partition work

All dimensions of furniture sizes mentioned in BOQ are approximate size and varies upto + / - 5mm as approved by the client / Architect.

Quantities of furniture are approximate and may vary upto + / - 10%

Legend/notations used in furniture specifications/descriptions are as follows:

MFC : Melamine Faced Chipboard








ERU : Extended Return Unit





CRCA : Steel Cold Rolled Close Annealed Steel






MDF : Medium Density Fiberboard




SH : Seat Height



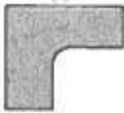


KBPT : Modular Metal Keyboard Pull-Out Tray


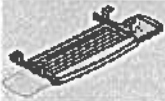





S.No.	Name of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
1	C.E.O		Providing and Placing the 3 Seater Sofa of approved make and Model in Synthetic Leather Size 1950LxD940X900HXSH 450mm. The Frame should be made of Tropical seasoned Hardwood and particle Board. Seat and Back Foam should be 26 D - Polyurethane slab stock foam with 25mm thick rayon layer. Leg should be made of MDF wooden Fascia with Melamine coating complete in all respect.	each	1.00			
1a	C.E.O		Providing and Placing the Single Seater Sofa of approved make & model in Synthetic Leather Size 1040xD940X900HXSH 450mm. The Frame should be made of Tropical seasoned Hardwood and particle Board. Seat and Back Foam should be 26 D - Polyurethane slab stock foam with 25mm thick rayon layer. Leg should be made of MDF wooden Fascia with Melamine coating complete in all respect.	each	2.00			
2	PA to CEO		Providing and Placing / fixing the Modular Main table of approved make & model of size : 1800 mm (W) x 900 mm (D) x 750 mm (H), made out of MFC over MDF and clad with Cherry shade laminate or as approved with post-formed edges. the top made out of 25 mm thick MFC (Melamine Faced Chipboard) + 30 mm thick MDF (Medium Density Fiberboard) black pad shall be mounted over MDF batten understructure as shown. the batten understructure shall be black pigmented polyurethane. The side panels shall be of overall thickness 38-38mm (18mmMDF+18mm MDF +1 mm decorative laminate on both sides) and finished with black-pigmented polyurethane. The modesty panel shall be 18mm thick MFC clad with laminate. Leg made of 25 mm thick MFC (Melamine Faced Chipboard) + 30 mm thick MDF (Medium Density Fiberboard) right & left pad finished with laminate of approved shade on both sides. all edges shall be postformed, complete in all respect.	each	1.00			
2.1	PA to CEO		Providing and Placing / fixing the Modular mobile pedestal of approved make & model of size: 400mm (W) x 560mm (D) x 560mm (H), the drawer top shall be made out of 25mm thick MFC Board and all other panel made out of 18mm thick MFC board and the drawer fronts having metal Handle, Lock & Castors of approved make with fittings, complete in all respect.	each	1.00			
2.2	PA to CEO		Providing and Placing / fixing the Modular side return unit of approved make & model of size: 1200mm W x 600mm D x 720mm H, the top of ERU shall be made out of 25mm thick MFC clad with cherry laminate or as approved. modesty panel shall be 18 mm thick MFC & Legs should be 25 mm thick MFC+30 mm thick MDF right and left pad with complete fittings with provision of KBPT, complete in all respect.	each	1.00			
2.3	PA to CEO		Providing and Placing the Modular back cabinet of approved make & model of size : 1400mm (W) x 470mm (D) x 760mm (H), the top & bottom of the unit shall be made out of 25mm thick MFC board, all other panel shall be 18 mm MFC Board, Glazed Door 18mm thick MFC board with 5mm thick glass and metal handle with complete fittings, complete in all respect.	each	1.00			
2.4	PA to CEO		Providing & Placing of High back revolving chair of approved make & model with seat made up of 1.2cm. thick hot-pressed plywood, upholstered with 100% pure leather (Black) at contact area and polyurethane foam. The seat width is 480mm and seat depth is 420mm. The back is made up of Dia 10mm M.S tubular frame, upholstered with pure leather (Black) at contact area. The polyurethane foam for seat is moulded with density = 32 ± 4 kg/cu.m and back is of density = 24 ± 2 kg/cu.m. The adjustable armrest top is soft touch upholstered with 100% pure leather mounted on to a injection moulded height adjustable type armrest. The mechanism is designed with the following features: - 360 deg revolving type. Single point control. Center pivot for tilt with feet resting on ground ensuring more comfort. Tilt tension adjustment. 5-position locking with anti-shock feature. Connecting spine bracket is made of M.S plate connecting back with mechanism. The pneumatic height adjustment has an adjustment of 6.5 cm. Pedestal is made of Die-cast aluminium fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch-center dia. (75.0 cm with castors). The twin wheel	each	1.00			






S.No.	Name of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
2.5	PA to CEO		Providing & Placing of medium back revolving chair of approved make & model with seat made up of 1.2cm. thick hot-pressed plywood, upholstered with 100% pure leather (Black) at contact area and polyurethane foam. The seat width is 450mm and seat depth is 420mm. The back is made up of Dia 10mm M.S tubular frame, upholstered with pure leather (Black) at contact area. The polyurethane foam for seat is moulded with density = 32 ±4 kg/cu.m and back is of density = 24 ±2 kg/cu.m. The adjustable armrest top is soft touch upholstered with 100% pure leather mounted on to a injection moulded height adjustable type armrest. The mechanism is designed with the following features: ~ 360 deg revolving type. Single point control. Center pivot for tilt with feet resting on ground ensuring more comfort. Tilt tension adjustment. 5-position locking with anti-shock feature. Connecting spine bracket is made of M.S plate connecting back with mechanism. The pneumatic height adjustment has an adjustment of 8.5 cm. Pedestal is made of Die-cast aluminium fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0 cm) The pedestal is 65.0cm. Pitch -center dia. (75.0 cm with castors). The twin w	each	2.00			
3	Sr. Officers		Providing & Placing / fixing the Modular main table of approved make & size 2000X1900X900 connected with side modular table. The desk top is made up of a 18mm x 3layers (i.e. 54mm) MFC top with cherry coloured melamine finish. The 3 distinct layers are highlighted / visible by the twin colour 2mm thick PVC lipping (cherry silver grey cherry). Dimensions are: 2000mm Width X 900mm Depth X 54mm thickness. The top is rested on a circular metallic pillar on one end and on pedestal on the other end with support of 2 metallic connectors. The top has a radius on the visitor end for aesthetics In - built Accessories: Main desk comes with a 4 mm synthetic leather Desk Pad, black in color. Modesty panel: Modesty panel is curved in shape. It is made up of MFC with silver grey colored melamine finish. It is fixed to the pedestal on one end and to the top on the other end. Main Desk Pedestals (One 3 drawer unit): It is made up of 18mm thick MFC with cherry melamine finish The front and back of the pedestal are in cherry color while the side panels are in silver grey matching to the modesty. Two Chromium Plated metal B) Side table (ERU) with Over all dimension 1050mm Width x 500mm Depth x 750	each	5.00			
3.1	Sr. Officers		Providing & placing / fixing the Modular Back Unit of approved make & model Pl Note: Back unit consists of a set of 3 independent cabinets placed next to each other. Cabinet 1 is a wooden hinged door unit having 4 doors (2 top & 2 bottom) Cabinet 2 is a combination of glass & wooden hinged door unit having 4 doors (2 glass doors on top & 2 wooden doors at bottom) Cabinet 3 is a wooden hinged door unit having 1 full height door. Cabinet 1 Over all dimension of the back unit is 800mm Width x 350mm Depth x 1520mm Height. Cabinet top panel is made up of 18mm x 2layers (i.e. 36mm) MFC top with cherry coloured melamine finish. The 2 distinct layers are highlighted by the twin colour 2mm thick PVC lipping (cherry & silver grey). Cabinet doors are 18mm thick in cherry. They are lockable. There is a shelf each in the upper and lower half. The side panels (18mm thick) are in grey colour. The back panel of cabinet is 8 mm thick MFC with melamine. Legs are made up of PVC in black colour. Cabinet 2 Same as cabinet1. Only difference is: top wooden doors are replaced by glass doors Glass door is tempered (toughened	each	5.00			
3.2	Sr. Officers		Providing & Placing the Very High back revolving chair of approved make & model with following specifications: 1) SEAT / BACK ASSY: The seat and back are made up of 1.2cm.thick hot pressed plywood upholstered with 100% Pure leather of approved shade and moulded Polyurethane foam. The back foam is designed with Contoured lumbar support for extra comfort (VERY HIGH BACK) SIZE: 53.0cm. (W) X 79.0cm. (H) SEAT SIZE: 48.0cm. (W) X 48.0cm. (D) 2) POLYURETHANE FOAM: The polyurethane foam is moulded with density = 45±2kg/m3 and Hardness = 20±2 On Hempden machine at 25% compression 3) SEAT-BACK CONNECTING SPINE: The seat and back are arrested together with a 9.0cm. (w) spine made of 0.8cm thk. HR steel. The spine is black powder-coated. 4) ARMREST ASSY: The armrest assy. comprises of three parts viz. the armrest support tube and P.U. armrest and the armrest top. The armrest tube assy. is made of 2.54cm(1") x 16 BG. M.S. E.R.W. support tubes and Chrome plated. The P.U. armrest is made of black Internal skin polyurethane with 50/70 Shore 'A' Hardness and reinforced with M.S.	each	5.00			




S.No.	No. of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
			Insert. The armrest top is made of ABS & upholstered with foam & leather. 360 deg	each	5.00			
3.3	Sr. Officers		Providing & Placing the medium back revolving chair of approved make & model with following specifications: 1) SEAT / BACK ASSY: The seat and back are made up of 1.2cm.thick hot pressed plywood upholstered with 100% pure leather of approved shade and moulded Polyurethane foam. The back foam is designed with Contoured lumbar support for extra comfort. Size 53.0cm. (W) X 54.0cm. (H) SEAT SIZE: 49.0cm. (W) X 48.0cm. (D) 2) POLYURETHANE FOAM: The polyurethane foam is moulded with density = 45+/-2kg/m3 and Hardness = 20+/-2 On Hampden machine at 25% compression 3) SEAT-BACK CONNECTING SPINE: The seat and back are armrested together with a 9.0cm. (w) spine made of 0.8cm.thk. HR steel. The spine is black powder-coated. 4) ARMREST ASSY: The armrest assy. comprises of three parts viz. the armrest support tube and P.U. armrest and the armrest top. The armrest tube assy. is made of 2.54cm(1") x 16 BG. M.S. E.R.W. support tubes and Chrome plated. The P.U. armrest is made of black integral skin polyurethane with 50-70 Shore "A" Hardness and reinforced with M.S. insert. The armrest top is made of ABS & upho	each	15.00			
4	Officers		Providing and Placing / fixing the Modular Main table of approved make & model of size : 1800 mm (W) x 900 mm (D) x 750 mm (H), made out of MFC over MDF and clad with Cherry shade laminate or as approved with post-formed edges. the top made out of 25 mm thick MFC (Melamine Faced Chipboard) + 30 mm thick MDF (Medium Density Fiberboard) black pad shall be mounted over MDF batten understructure as shown, the batten understructure shall be black pigmented polyurethane. The side panels shall be of overall thickness 38-38mm (18mmMDF+10mm MDF + 1 mm decorative laminate on both sides) and finished with black-pigmented polyurethane. The modesty panel shall be 18mm thick MFC clad with laminate. Leg made of 25 mm thick MFC (Melamine Faced Chipboard) + 30 mm thick MDF (Medium Density Fiberboard) right & left pad finished with laminate of approved shade on both sides. all edges shall be postformed, complete in all respect.	each	3.00			
4.1	Officers		Providing and Placing / fixing the Modular mobile pedestal of approved make & model of size: 400mm (W) x 560mm (D) x 560mm (H), the drawer top shall be made out of 25mm thick MFC Board and all other panel made out of 18mm thick MFC board and the drawer fronts having metal Handle, Lock & Castors of approved make with fittings,complete in all respect.	each	3.00			
4.2	Officers		Providing and Placing / fixing the Modular side return unit of approved make & model of size: 1200mm W x 600mm D x 720mm H, the top of ERU shall be made out of 25mm.thick-MFC clad with cherry laminate or as approved. modesty panel shall be 18 mm thick MFC & Legs should be 25 mm thick MFC+30 mm thick MDF right and left pad with complete fittings with provision of KBPT, complete in all respect.	each	3.00			
4.3	Officers		Providing and Placing the Modular back cabinet of approved make & model of size: 1400mm (W) x 470mm (D) x 780mm (H), the top & bottom of the unit shall be made out of 25mm thick MFC board, all other panel shall be 18 mm MFC Board, Glazed Door 18mm thick MFC board with 5mm thick glass and metal handle with complete fittings, complete in all respect.	each	3.00			




S.No.	Name of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
4.4	Officers		Providing & Placing of High back revolving chair of approved make & model with seat made up of 1.2cm. thick hot-pressed plywood, upholstered with 100% pure leather (Black) at contact area and polyurethane foam. The seat width is 490mm and seat depth is 420mm. The back is made up of Dia 10mm M.S tubular frame, upholstered with pure leather (Black) at contact area. The polyurethane foam for seat is moulded with density = 32 ±4 kg/cu.m and back is of density = 24 ±2 kg/cu.m. The adjustable armrest top is soft touch upholstered with 100% pure leather mounted on to a injection moulded height adjustable type armrest. The mechanism is designed with the following features: - 360 deg revolving type. Single point control. Center pivot for tilt with feet resting on ground ensuring more comfort. Tilt tension adjustment. 5-position locking with anti-shock feature. Connecting spine bracket is made of M.S plate connecting back with mechanism. The pneumatic height adjustment has an adjustment of 8.5 cm. Pedestal is made of Die-cast aluminium fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch -center dia. (75.0 cm with castors). The twin w	each	3.00			
4.5	Officers		Providing & Placing of medium back revolving chair of approved make & model with seat made up of 1.2cm. thick hot-pressed plywood, upholstered with 100% pure leather (Black) at contact area and polyurethane foam. The seat width is 490mm and seat depth is 420mm. The back is made up of Dia 10mm M.S tubular frame, upholstered with pure leather (Black) at contact area. The polyurethane foam for seat is moulded with density = 32 ±4 kg/cu.m and back is of density = 24 ±2 kg/cu.m. The adjustable armrest top is soft touch upholstered with 100% pure leather mounted on to a injection moulded height adjustable type armrest. The mechanism is designed with the following features: - 360 deg revolving type. Single point control. Center pivot for tilt with feet resting on ground ensuring more comfort. Tilt tension adjustment. 5-position locking with anti-shock feature. Connecting spine bracket is made of M.S plate connecting back with mechanism. The pneumatic height adjustment has an adjustment of 8.5 cm. Pedestal is made of Die-cast aluminium fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch -center dia. (75.0 cm with castors). The twin w	each	6.00			
5	Dy. Officers		Providing, Placing and assembling the main table of approved make & model Size(W X D X H)-1500 x 750 x 740 mm. Table Top, Side Panel to be made up of - 25 mm Thick Plain Particle board (PPB) clad with 0.6 mm thick post formed laminate and 1 mm Thick Backing Laminate (BDL). Flat edge duly sealed with 2 mm Thick PVC beading. (Modesty)-18 mm Thick Plain Particle Board (PPB) clad with 1.0 mm Thick Decorative Laminate (DL) on both sides, Edge sealed with 2 mm Thick PVC beading. Extended Return unit (ERU)- (Top, Side Panel)-25 mm thick Plain Particle Board (PPB) clad with 0.6 mm thick post formed Laminate and 1 mm Thick Backing Laminate (BDL). Flat edge duly sealed with 2 mm Thick PVC beading. (Modesty)-18 mm Thick Plain Particle Board (PPB) clad with 1.0 mm thick Decorative Laminate (DL) on both sides. Edges sealed with 2 mm thick PVC beading. Hinges Door Unit (HRU)- (Top, Side Panel,)-25 mm Thick Plain Particle Board (PPB) clad with 0.6 mm thick Post formed Laminate and 1 mm Thick Backing Laminate (BDL). Flat edge duly sealed with 2 mm thick PVC beading. (Doors, Partitions, Shelves)-18 mm Thick Plain Particle Board (PPB) clad w	each	12.00			








S.No.	No. of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
5.1	Dy. Officers		Providing & Placing of High back revolving chair of approved make & model with seat made up of 1.2cm. thick hot-pressed plywood, upholstered with 100% pure leather (Black) at contact area and polyurethane foam. The seat width is 490mm and seat depth is 420mm. The back is made up of Dia 10mm M.S tubular frame, upholstered with pure leather (Black) at contact area. The polyurethane foam for seat is moulded with density = 32 ± 4 kg/cu.m and back is of density = 24 ± 2 kg/cu.m. The adjustable armrest top is soft touch upholstered with 100% pure leather mounted on to a injection moulded height adjustable type armrest. The mechanism is designed with the following features: - 360 deg revolving type. Single point control. Center pivot for tilt with feet resting on ground ensuring more comfort. Tilt tension adjustment. 5-position locking with anti-shock feature. Connecting spine bracket is made of M.S plate connecting back with mechanism. The pneumatic height adjustment has an adjustment of 8.5 cm. Pedestal is made of Die-cast aluminium fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch -center dia. (75.0 cm with castors). The twin w	each	12.00			
5.2	Dy. Officers		Providing & Placing of medium back revolving chair of approved make & model with seat made up of 1.2cm. thick hot-pressed plywood, upholstered with 100% pure leather (Black) at contact area and polyurethane foam. The seat width is 490mm and seat depth is 420mm. The back is made up of Dia 10mm M.S tubular frame, upholstered with pure leather (Black) at contact area. The polyurethane foam for seat is moulded with density = 32 ± 4 kg/cu.m and back is of density = 24 ± 2 kg/cu.m. The adjustable armrest top is soft touch upholstered with 100% pure leather mounted on to a injection moulded height adjustable type armrest. The mechanism is designed with the following features: - 360 deg revolving type. Single point control. Center pivot for tilt with feet resting on ground ensuring more comfort. Tilt tension adjustment. 5-position locking with anti-shock feature. Connecting spine bracket is made of M.S plate connecting back with mechanism. The pneumatic height adjustment has an adjustment of 8.5 cm. Pedestal is made of Die-cast aluminium fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch -center dia. (75.0 cm with castors). The twin w	each	24.00			
6	Ju. Officers JC-1		Providing & fixing the Modular Work top of approved make & model size 1500X1500 L-shape (should be in a single piece without joint) shall be made of 25mm thick Pre laminated particle board interior grade of approved shade conforming to IS: 12623. Bottom shall have a backing laminate of minimum 0.8 mm thickness. All the edges of work surface shall be provided with machine pressed 2 mm thick PVC flipping glued with hot melt EVA glue complete in all respect.	each	8.00			
6.1	Ju. Officers JC-2		Providing & fixing panel based modular partition system of approved make & model with overall thickness of 52.4mm. The panel thickness comprises of 36mm thick paper honeycomb + 3mm thk. MDF on each sides + 0.8mm thk. decorative laminate or fabric on both sides. The fabric is upholstered with. Particle board framing is used on outer boundary of these blocks as well as intermediately at certain locations forming conduit for passing cables. These blocks are located in the mid segment of the panels and can be provided with cutouts for mounting switch boxes (above or below the worktop). Fabricated bottom frame for 52.4mm panel comprises of L-channels made of 2mm thick CRCA steel (IS: 513), formed plates of 3mm thick HR steel (IS: 2062) & ERW steel tube of size 35x15x1.6mm thick in oval cross section (IS: 7138) welded together. This frame is bolted to the uprights with M6 screws. Top tiles can be offered in variety of combinations. These tiles are slid in to the panels from top before fixing the top horizontal. Tiles are fixed on the frame verticals with the help of plastic buttons. Various finishes for the White board Tile. These tiles are supported from top & bottom side with clips made	sqm	24			
6.2	Ju. Officers JC-3		Providing & placing the Modular CPU Trolley of approved make shall made of 1.5mm thick HR sheet, duly powder coated of thickness not less 45 micron in colour of approved shade, with 35mm dia castors to provide mobility. The width of CPU should be adjustable complete in all respect.	each	8.00			







S.No.	Name of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
6.3	Ju. Officers: JO-4		Providing & Placing the Modular 3-drawer unit of approved make & model of size 380-380mm (L) x 450mm (D) x 860mm (H) made of 0.8mm thick CRCA body and fascia duly powder coated of minimum thickness 45 micron. The drawer unit shall consist of two drawers and one filing box mounted on metallic roller slides both sides. It shall be provided with central lock mechanism with keys and flush handles are to be provided in front to facilitate opening and closing of drawers. The unit is supported on - 4 Nos. levelers with 15mm level adjustment. The Drawer Unit shall drawers, also be provided with a Pencil Tray made of ABS sheet in the Top most compartment of the Drawer Unit complete in all respect.	each	8.00			
6.4	Ju. Officers: JO-5		Providing & Fixing Modular Metal Keyboard Pull-Out Tray of approved make of size 480-500 x 240mm minimum made of 0.8 - 1.0 mm thick CRCA steel duly powder coated, of minimum thickness 45 micron, with metallic roller slides (Telescopic channels) on both sides and shall be fixed to the bottom of worktop surface with the help of screws. The entire keyboard pull-out tray would operate on 11.8mm thick single extent ball slides. The assembly would mount on the under side of the work top using 4 Nos. of "L" brackets with fittings complete in all respect.	each	8.00			
6.5	Ju. Officers: JO-6		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W) x 490mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m ³ and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick C injection molded black Polypropylene hub cap and 5 nos. twin wheel castors. (cast	each	8.00			
7	P.A. of Sr. officer / officer		Providing & Placing the Modular Main table of approved make & model of size 1200mm(W) X 600mm(D) X 750mm (H). Table top Made from 18mm thick PLB with PVC lipping in white cedar, side panels Made from 18mm thick PLT with PVC lipping. Modesty Panel Made from 18mm thick PLT with PVC lipping. Bigger upper panel in Black and smaller lower panel in white Cedar. complete in all respect.	each	8.00			
7.1	P.A. of Sr. officer / officer		Providing, Placing & fixing the ERU Side table approved make & model 900mm W x 450mm D x 750mm (H) as an independent standing unit. The ERU top Made from 18mm thick PLB with PVC lipping, is in white cedar, Made from 18mm thick PLT with PVC lipping. Bigger upper panel in Black and smaller lower panel in white Cedar, complete in all respect.	each	8.00			
7.2	P.A. of Sr. officer / officer		Providing & Placing the two drawer (1 box drawer & 1 filing drawer) Mobiles Pedestal of approved make & model of size: 380 x 435 x 529mm. The top & drawer fronts are in white cedar while the other components are in black. One Box and one Filing drawer with 18mm thick PLB fronts and top. Handles - Black Powder coated Die cast Aluminum alloy handles. Mobile Pedestal and HDU are fitted with central Lock complete in all respect.	each	8.00			
7.3	P.A. of Sr. officer / officer		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W) x 490mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m ³ and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick C injection molded black Polypropylene hub cap and 5 nos. twin wheel castors. (cast	each	8.00			







S.No.	No. of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
8	Executives at Work stations		Providing & fixing the Modular Work top of approved make & model size 1200X800mm (should be in single piece) rectangular shape shall be made of 25mm thick Pre laminated particle board interior grade of approved shade conforming to IS: 12623. Bottom shall have a backing laminate of minimum 0.6 mm thickness. All the edges of work surface shall be provided with machine pressed 2 mm thick PVC lipping glued with hot melt EVA glue complete in all respect.	each	82.00			
8.1	Executives at Work stations		Providing & Fixing Modular Metal Keyboard Pull-Out Tray of approved make of size 480-500 x 240mm minimum made of 0.8-1 mm thick CRCA steel duly powder coated, of minimum thickness 45 micron, with metallic roller slides (Telescopic channels) on both sides and shall be fixed to the bottom of worktop surface with the help of screws. The entire keyboard pull-out tray would operate on 11.8mm thick single extent ball slides. The assembly would mount on the under side of the work top / table using 4 Nos. of "L" brackets complete in all respect.	each	112.00			
8.2	Executives at Work stations		Providing & placing of Modular CPU Trolley of approved make shall made of 1.5mm thick HR sheet, duly powder coated of thickness not less 45 micron in colour of approved shade, with 35mm dia castors to provide mobility. The width of CPU trolley should be adjustable complete in all respect.	each	112.00			
8.3	Executives at Work stations		Providing & fixing panel based modular partition system of approved make & model with overall thickness of 52.4mm. The panel thickness comprises of 38mm thick paper honeycomb + 3mm thk. MDF on each sides + 0.6mm thk. decorative laminate or fabric on both sides. The fabric is upholstered with. Particle board framing is used on outer boundary of these blocks as well as intermediately at certain locations forming conduit for passing cables. These blocks are located in the mid segment of the panels and can be provided with cutouts for mounting switch boxes (above or below the worktops). Fabricated bottom frame for 52.4mm panel comprises of L-channels made of 2mm thick CRCA steel (IS: 513), formed plates of 3mm thick HR steel (IS: 2062) & ERW steel tube of size 35x15x1.8mm thick in oval cross section (IS: 7136) welded together. This frame is bolted to the uprights with M6 screws. Top tiles can be offered in variety of combinations. These tiles are slid in to the panels from top before fixing the top horizontal. Tiles are fixed on the frame verticals with the help of plastic buttons. Various finishes for the White board Tile. These tiles are supported from top & bottom side with clips made one or as required pinup tile and one white board tile or one magnetic board tile as	sqm	128.4			
8.4	Executives at Work stations		Providing & Placing the Modular 3-drawer unit of approved make & model of size 360-380mm (L) x 450mm (D) x 880mm (ht) made of 0.8mm thick CRCA body and fascia duly powder coated of minimum thickness 45 micron. The drawer unit shall consist of two drawers and one filing box mounted on metallic roller slides both sides. It shall be provided with central lock mechanism with keys and flush handles are to be provided in front to facilitate opening and closing of drawers. The unit is supported on - 4 Nos. levelers with 15mm level adjustment. The Drawer Unit shall drawers, also be provided with a Pencil Tray made of ABS sheet in the Top most compartment of the Drawer Unit complete in all respect.	each	82.00			

S.No.	Name of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (₹.)
8.5	Executives at Work stations		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and moulded Polyurethane foam, together with moulded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W) x 480mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is moulded with density = 45 +/- 2 kg/m ³ and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14" maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick Cast injection molded black Polypropylene hub cap and 5 nos. twin wheel castors, (cast	each	82.00			
9	Conference Room		Providing and placing of modular conference table of approved make & model height 730mm having Top thickness: 37.6 (18mm thk MDF + 18mm thk, MDF+ 0.6 mm decorative laminate + 0.4mm Membrane) Edge profile Waterfall Edge 10mm radius on top edge and 5mm at bottom. Understructure Legs Modesty Panel Made from 38mm PPB (18mm+18mm thk.) having a straight profile with half round edges and clad with 0.6mm thick Post Forming laminate. Overall thickness of leg is 37.2mm. Made from PLT (Prelaminated Twin) boards of 18mm thick. Wire Manager: Wire Carrier Carrier Cover Made from 0.6mm thick CRCA painted. Carrier Cover: Made of 12mm thk. MDF Painted all over. Void space between table shall be filled with 10 mm black / approved shade tempered glass on the top. Material Substrate: MDF Skin: PVC Membrane foil (0.4mm thk) clad on the substrate MDF using PU glue for better adhesion. This foil is pre-coated with layer of polyurethane for better scratch resistance included all fittings accessories complete in all respect in following Sizes:					
9.1	Conference Room		Half Round (2 Seater) Radius 713mm, 600mm D	each	2.00			
9.2	Conference Room		Two Seater modules rectangular of size 1350mm W x 600mm D	each	6.00			
9.3	Conference Room		Providing & Placing the High back revolving chair of approved make & model with following specifications: SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with Leatherette of approved shade & make and moulded Polyurethane Foam. The back is made up 1.2-cm. thk. hot pressed plywood upholstered with replaceable leatherette upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumbar support for comfortable seating posture. BACK SIZE MB : 48cm. (W) X 66.0cm. (H) SEAT SIZE 50.0cm. (W) X 49.5cm. (H) The polyurethane foam for seat and back is moulded with density = 45 +/- 2 kg/m ³ and Hardness = 20 +/- 2. The armrest top is injection moulded from polyurethane (P.U) and mounted on to a drop lift adjustable type M.S. tubular armrest support. The armrest height adjustable up to 6.5cm in 5 steps. The armrest top is injection moulded from polyurethane (P.U) and mounted on to a fixed type M.S. tubular armrest support. The arm support has static vertical					





S.No.	No. of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
			adjustment of $\pm 1.5\text{cm}$. 5) The mechanism is designed with the following features:	each	35			
10	Meeting Room		Providing & Placing Modular 6 seater conference table of approved make & model of size 2100 X 1200 X 750 Work surface 32mm Thick ($\pm 1\text{mm}$) Base Material 18*12mm MDF board Natural Veneer 0.5mm on Top surface 0.6mm balancing laminate on bottom surface Chamfer edges PU Matt melamine polished Veneer of approved shade portion of work surface is finished in PU Matt paint / melamine polish Vail and Cross Member 18mm Thick ($\pm 1\text{mm}$) Base material 8mm Plain particle board Posilaminated with 0.5mm Top laminate on either side 2mm Thk and 0.8mm Thk PVC edge banding of matching colour on outer edges of Vail 0.8mm Thk PVC edge banding of matching colour on outer edges of cross member Legs Made from 1.6mm Matt silver Anodized Aluminium extrusion. Legs assembled together with a plastic glide holder at bottom and 5mm thick MS powder coated sheet at top. The wire carrying is facilitated through the hollow space between two leg extrusions and the wires are concealed between removable rigid PVC extrusion in the leg Access Flap and Switch Mounting Tray Made from Matt silver Anodized Aluminium extrusion and plastic moulded components to facilitate	each	1.00			
10.1	Meeting Room		Providing & Placing of medium back revolving chair of approved make & model with following specifications: Seat Size: shall be 480mm (W) x 470mm (D), Back Size shall be 470mm (W) x 590mm (D) and Chair size shall be 720mm (W) x 720mm (D) x 910-1000mm (H) seat Height 425-515mm. The seat is made up of 1.2 cm. thk. hot pressed plywood upholstered with fabric and moulded Polyurethane foam. The back is a fabricated tubular frame assembly; powder coated and upholstered with a fire-retardant mesh-type 100% High Tenacity Polyester fabric. The back tubular frame is made of Dia. 1.9cm (3/4") x 16bg (0.16cm) thk. M.S. E.R.W. tube. The polyurethane foam for seat is moulded with density = 45 \pm 2 Kg./m ³ and Hardness = 20 \pm 2 on Hampden machine at 25% compression. The back cover is a perforated strip fabricated from 0.08cm. thk. CR steel and powder coated. The perforated back cover is provided with an injection moulded ABS label holder and paper label, which serves as a nameplate. The seat is covered on the underside with black Polypropylene non-woven fabric. The armrest top is injection moulded from black Polypropylene and mounted on to a fix M.S. tubular armrest support. The support can be statically adjusted \pm 1.5cm. var 360 degree revolving type, Single point control. Front-pivot for tilt with feet resting covered with a black Polypropylene moulded 2-piece hubcap at the center. The pe	each	6			
10.2	Meeting Room		Providing and Placing the Sofa cum bed with storage (as shown in picture) of approved make and Model in two tone Synthetic Leather of approved shade Size 1850LxD870X870HxSH 450mm. The Frame should be made of Tropical seasoned Hardwood and particle Board. Seat and Back Foam should be rebinding foam with polyester padding layer. Leg should be made of MDF wooden Fascia with Melamine coating complete in all respect.	each	1.00			

S.No.	Name of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (₹)
11	Reception		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W)x480mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m3 and Hardness = 20 +/- 2 kg, on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick Cast injection molded black Polypropylene hub cap and 5 nos. twin wheel castors. (cast	each	1.00			
11.1	Reception		Providing and placing the Modular corner table of approved make & model of size 600D x 600W x 450H with 8mm thick tempered glass top and 8mm thick tempered bottom glass for storage option and silver powder coated understructure tempered glass attached to the understructure via UV disc as/ marf specifications. Load bearing capacity is 20KG complete in all respect.	each	3.00			
11.2	Reception		Providing and Placing the 3 Seater Sofa of approved make & model of size 1830mm(W)x783mm(D)x750mm(H). Seat Height : 415mm. The LHRH side frame is fitted to the two ends of the ST/BK mounting frame to form the leg assembly. It is made of SS J4 / 304 Grade tube dia 4.44 cm. (1.75") x 14 BG. Thk. The ST/BK mounting frame assy. holds the two side frames together. The mounting frames, 2nos are used to connect the side frames. The mounting frame is made of MS. E.R.W. tube dia. 3.08cm. (2") x 10BG thk. black painted. The ST/BK is mounted on 14 BG thk 2cm x 4cm Recta tube which are welded on the beam of ST/BK mounting frame. The ST/BK assembly consists of 12mm thk plywood insert with Polyurethane foam having density = 45 +/- 2 Kg/cm3 and hardness of the P.U. foam = 18 to 22 Kg on Hampden m/c for 25% compression of the foam. The complete moulded ST/BK assembly is covered with a replaceable fabric ST/BK SIZE: 54.5cm. (W) X46.7cm. (D) X 12.5cm. (T). BOTTOM SHOES: The side frames are fitted with front and rear bottom shoes made of injection moulded polypropylene. FABRIC (VELVETINE PLUS): The sofa is upholstered with stain re	each	3.00			
12	Training Room		Providing & Fixing / Placing the modular Table of size 1200x450X750mm using 25mm Thick (±1mm) Base Material - 25mm Thick Pre-laminated particle board 2mm Thk PVC edge banding on straight outer edges (Available in matching colour and contrast colour as per colour chart). Modesty 18mm Thick (±1mm) Base material - 16mm Plain particle board Post-laminated with 0.6mm Top laminate on either side 2mm Thk and 0.8mm Thk PVC edge banding of matching colour on outer edges of modesty Legs Made from 1.8mm Matt silver Anodized Aluminium extrusion. Legs assembled together with 8mm thick MS powder coated plate at bottom and 5mm thick MS powder coated plate at top. Max. 20 nos. of Dia 6 wires can be passed through the space between two leg extrusions Stopper Powder coated stopper made from 1.5mm thick Aluminium extrusion fixed with work-surface by powder coated stopper bracket made from 3mm thick MS sheet. Both ends of Aluminium extrusion covered with plastic moulded End cap	each	12.00			
12.1	Training Room		Providing & Placing the Modular Main table of approved make & model of size 1200mm(W) X 800mm(D) X 750mm (H). Table top Made from 18mm thick PLB with PVC lipping in white cedar, side panels Made from 18mm thick PLT with PVC lipping. Modesty Panel Made from 18mm thick PLT with PVC lipping. Bigger upper panel in Black and smaller lower panel in white Cedar, complete in all respect.	each	1.00			
12.2	Training Room		Providing, Placing & fixing the ERU/ Side table approved make & model 900mm W x 450mm D x 750mm (H) as an independent standing unit. The ERU top Made from 18mm thick PLB with PVC lipping is in white cedar, Made from 18mm thick PLT with PVC lipping. Bigger upper panel in Black and smaller lower panel in white Cedar, complete in all respect.	each	1.00			
12.3	Training Room		Providing & Placing the two drawer (1 box drawer & 1 filing drawer) Mobiles Pedestal of approved make & model of size: 390 x 435 x 525mm. The top & drawer fronts are in white cedar while the other components are in black. One Box and one Filing drawer with 18mm thick PLB fronts and top. Handles : Black Powder coated Die cast Aluminum alloy handles. Mobile Pedestal and HDU are fitted with central Lock complete in all respect.	each	1.00			

S.No.	Location / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
12.4	Training Room		Providing & Fixing Metal Keyboard Pull-Out Tray of approved make & model shall be of size 480-500 x 240mm minimum made of 0.8-1 mm thick CRCA steel duty powder coated, of minimum thickness 45 micron, with metallic roller slides (Telescopic channels) on both sides and shall be fixed to the bottom of worktop surface with the help of screws. The entire keyboard pull-out tray would operate on 11.8mm thick single extent ball slides. The assembly would mount on the under side of the work top using 4 Nos. of "L" brackets complete in all respect.	each	25.00			
12.5	Training Room		Providing & supplying of CPU Trolley of approved make shall made of 1.5mm thick HR sheet, duty powder coated of thickness not less 45 micron in colour of approved shade, with 35mm dia castors to provide mobility. The width of CPU trolley should be adjustable complete in all respect.	each	25.00			
12.6	Training Room		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W)x480mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m ³ and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection molded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick CR injection molded black Polypropylene hub cap and 5 nos. twin wheel castors. (cast	each	25.00			
13	Library		Providing & Placing the 4 Drawer Bookcase of approved make & model of size 914 mm (W) x 320 mm (D) x 1742 mm (H) for 4 Door / 940 mm (H) for 2 Door Construction & Material Rigid Knock down construction, prime Quality CRCA Steel Panels & Frame from 0.8 mm thick. Door Features / Locking Each Door has 10 Lever Cam lock with common key Each Door has 3 mm Thk transparent glass for clear inside vision secured in a Metal Frame through rubber gasket Each door has a Scissor mechanism for receding inside the top of respective compartment & ensures parallel & smooth movement. Each door has Plastic side and caps as Handle which is easy to grip Behind Storage Shelving Each compartment has storage shelf Uniformly Distributed Load Capacity per each shelf is 80 Kg maximum. Top Panel & 4 Door has Inside Metal Top Panel Finish Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10) complete in all respect.	each	5.00			
13.1	Library		Providing and placing the Books Display rack of approved make & model of Size: Width: 900 Height: 1890mm (incl. 65mm Skirting) Depth: 400mm Construction & Material Rigid Knock down construction. Prime Quality CRCA Steel - Panels from 0.8 mm thick, Side panels: 27mm thk Prelaminated particle board (PLB) with laminate on both sides. Stack ability. The add-on units can be stacked width wise to form a bank of racks having common side panel. Configuration (Racks) 5 Level Racks per unit Display Tray Suitable for magazines, periodicals. Aesthetically appealing Metal tray at an angle for easy viewing. Receding facility to access the storage behind. Sliding on plastic rollers. Behind Storage Shelving Each of 5 level has a behind storage shelf Uniformly Distributed Load Capacity per each shelf is 35 Kg maximum. Metal Skirting Width- 289mm (for 1unit) / 578mm (for 2unit) / 867mm (for 3unit). Depth- 397mm Height- 85mm Finish All metal component in Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10) complete in all respect.	each	3.00			
13.2	Library		Providing & Placing the Modular Main table of approved make & model of size 1200mm(W) X 600mm(D) X 750mm (H), Table top Made from 18mm thick PLB with PVC lipping in white cedar, side panels Made from 18mm thick PLT with PVC lipping. Modesty Panel Made from 18mm thick PLT with PVC lipping. Bigger upper panel in Black and smaller lower panel in white Cedar, complete in all respect.	each	1.00			

S.No.	Name of Person / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
13.3	Library		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W)x480mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m3 and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick C injection molded black Polypropylene hub cap and 5 nos. twin wheel castors. (cast	each	2.00			
14	Pantry/ Dining		Providing & Placing modular Dining table of approved make & model. Table understructure is foldable and stackable, made with combination of Aluminum and Plastic. Center column is of serrated Aluminum extrusion of diameter 70mm, which is anodized min. 25 microns. the Base of table is made in 2 pieces of die cast aluminum with buffed finish. It is bolted together with the center column and top flange as/ manfd. specifications. Stainless Steel (304 grade) Top Size: 600mmx800mmx1.2mm thick over 24 mm Thick (±1mm) – Top assembly. S.S. Top Made from 1.2mm Thk SS-304 Brushed Steel finish sheet Welded Stiffener assembly made from 0.6mm Thick SS-304 sheet glued with top with special Glue as/ manfd. specifications complete in all respect.	each	4.00			
14.1			Providing & Placing Dinning chair of approved make & model of size 520mm Wx545mm Dx805mm H. Seat height 430mm. Seat and back shell is injection molded in Polypropylene of approved colour such as Red, Blue and Green or as approved. Tubular frame is in 19mm Dia stainless steel tube -304 / J4 grade, complete in all respect.	each	16.00			
15	Receipt & Dak		Providing & Placing the Modular Main table of approved make & model of size 1200mm(W) X 600mm(D) X 750mm (H), Table top Made from 18mm thick PLB with PVC lipping n white cedar, side panels Made from 18mm thick PLT with PVC lipping. Modesty Panel Made from 18mm thick PLT with PVC lipping. Bigger upper panel in Black and smaller lower panel in white Cedar. complete in all respect.	each	1.00			
15.1	Receipt & Dak		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W)x480mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m3 and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm thick C injection molded black Polypropylene hub cap and 5 nos. twin wheel castors. (cast	each	1.00			
16	Staging Room		Providing & Placing the Modular Main table of approved make & model of size 1200mm(W) X 600mm(D) X 750mm (H), Table top Made from 18mm thick PLB with PVC lipping n white cedar, side panels Made from 18mm thick PLT with PVC lipping. Modesty Panel Made from 18mm thick PLT with PVC lipping. Bigger upper panel in Black and smaller lower panel in white Cedar. complete in all respect.	each	1.00			

V 66

S.No.	Room / Room	Image of furniture	Description of furniture	Unit	Total Qty	Rate in words	Rate (Rs.)	Amount (Rs.)
16.1	Staging Room		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W)x480mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m3 and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. Insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick CI injection molded black Polypropylene hub cap and 5 nos. twin wheel castors.(cast	each	1.00			
17	Cash Cabin		Providing & Placing the two drawer (1 box drawer & 1 filing drawer) Mobiles Pedestal of approved make & model of size: 390 x 435 x 520mm. The top & drawer fronts are in white cedar while the other components are in black. One Box and one Filing drawer with 18mm thick PLB fronts and top. Handles - Black Powder coated Die cast Aluminum alloy handles. Mobile Pedestal and HDU are fitted with central Lock complete in all respect.	each	1.00			
17.1	Cash Cabin		Providing and Placing the Midback Revolving Chair of approved make & model. The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric of approved shade and molded Polyurethane foam, together with molded seat and back covers. The back foam is designed with contoured lumbar support for extra comfort. The Seat Size shall be 520mm (W)x480mm (D) and Back Size shall be 450mm (W) x 530mm (H). The Polyurethane foam is molded with density = 45 +/- 2 kg/m3 and Hardness = 20 +/- 2 kg. on Hampden machine at 25% compression. The seat & back cover is injection moulded in black Co-polymer Polypropylene. The one-piece armrests are made of black integral skin polyurethane reinforced with M.S. Insert with 50-70 Shore 'A' hardness. The armrests are scratch and weather resistant. The armrests are fitted to the seat with armrest brackets made of 0.5cm. thk. HR steel. The permanent contact mechanism is designed with the following features: 360° revolving type, 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 9.0 cm. The pedestal is fabricated from 0.2cm. thick CI injection molded black Polypropylene hub cap and 5 nos. twin wheel castors.(cast	each	1.00			
18	Open office		Providing and Placing the modular storage of approved model & make size 1200mm(W), 450mm (D), 1167.5mm (H) made of Prime Quality CRCA Steel - 0.8 mm Thick finished with Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10), the storage has two nos of Full height Sliding Door with top hanging arrangement to prevent derailment. Each door provided with 2 Plastic roller having steel ball bearing for smooth movement of door & less noise.the doors have Snap on type aesthetically appealing die cast 5 Lever Cam lock for safe locking with Plastic flush & recessed handle.Height wise Adjustable full / half (as approved) Shelf, Mounting Uniformly Distributed Load Capacity per each full shelf is 80 Kg maximum & for half shelf it is 40 Kg. Cradle with pipes for hanging Instadex files, leveler. Screw type leveler with hex plastic base (add in unit height min.8mm & additional 5 mm max for adjustment) the top of storage shall be made of Prime Quality CRCA Steel - 0.8 mm Thick finished with Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10) or Plain Wooden (PLB) Top finished with 1mm thk. laminate of app	each	8.00			
Total Rs								



