



Bhopal Smart City Development Corporation Limited



Request for Proposal

“Design, Engineering, Supply and Installation of Interiors for Control and command center of Smart Pole project”

2017

“Second Call”

Prepared by

Recommended by

Approved by

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SECTION-1
NOTICE INVITING TENDER

Bhopal Smart City Development Corporation Limited

NOTICE INVITING e-TENDER (NIT)

BSCDCL invites online item rate tender as per schedule as under:

Tendering Document No.	MPBSCDCL/TENDER NO -32
Name of the Work	““Design, Engineering, Supply and Installation of Interiors for Control and command center of Smart Pole project”
Brief Scope of Work	““Design, Engineering, Supply and Installation of Interiors for Control and command center of Smart Pole project”
Estimated Cost	29284853.00 (Two crore ninety two lakhs eighty four thousands eight hundred fifty three only)
Period of Completion	9 Months
Earnest Money Deposit	Rs 2,92,848.00(Two lakhs ninety two thousands eight hundred forty eight only)
Non-refundable cost of e- Tender Document	15000/- (Fifteen thousand rupees only)
Purchase of Tender Start Date	13/06/2017 by 18.30 Hrs
Purchase of Tender End Date	27/06/2017 by 17.00 Hrs
Last date & time of submission of Online Tender	27/06/2017 by 23.00 Hrs
Period during which hard copy of the documents as per NIT shall be submitted.	27/06/2017 by 14.00 Hrs
Date & Time of Opening of technical bid	28/06/2017 by 10.30 Hrs
Date & Time of Opening of Financial bid	Will be intimated to the qualified bidders in Technical Bid
Validity of offer	90 days from the date of opening of price bid.
Pre-Tender Meeting & Venue	19/06/2017 at 16.00 Hrs At BSCDCL, Bhopal Office

ELIGIBILITY CRITERIA FOR BIDDER:-

1. The firm must have experience of executing minimum 01 Nos. of control room solution (Designing & total interior work) within last five years in any Govt./PSU/Private Organization. The firm should submit proof of work order for the above job to qualify for the BID.
2. The Average annual financial turnover for last 3 years(2013-14, 2014-15, 2015-16) shall be at least 30% of the estimated cost put to tender, Copies of balance sheets of last three financial years OR duly certified by a Chartered Accountant shall be submitted in support of the requisite financial Turnover.
3. The bidder shall have successfully completed similar works in Government sector/PSU during the last seven years as mentioned below:

Three similar works each costing not less than 40% of the estimated cost put to tender

OR

Two similar works each costing not less than 50% of the estimated cost put to tender

OR

One similar work costing not less than 80% of the estimated cost.

(In case of private supporting document like TDS certificate, work-order completion certificate should be submitted)

4. The scope of work, technical complexity and quantum of work for Control and Command Centre will be properly realized after physical inspection of the Command Centre. Therefore firms are requested to visit the control room & attend pre-bid meeting with user, positively before submission of tender documents failing which the tenders/quotes will be rejected.
5. Net worth should be positive in last three years.
6. The firm must be able to accommodate any design modification of consoles by user at any point of time before installation of control desks.
7. The Bidder shall submit test certificates of all the raw material at no additional cost during the execution time.
8. The copy of above documents shall be submitted by the bidder along with hard copies of other required documents.
9. Copy of Sales Tax, Service Tax, VAT Registration, EPF Registration Certificate & PAN Card, TAN No, ESIC certificate.

10. Information regarding the constitution of the applicant /firm e . g . Proprietary, Partnership, Private Ltd. etc. along with proof of the same such as copies of registration/ partnership deed etc.

The tender document can be downloaded from www.mpeproc.gov.in “Corrigendum, if any, would appear only on the www.mpeproc.gov.in web site and not to be published in any News Paper”.

The intending Bidder must read the terms and conditions of BSCDCL carefully. He should only submit his tender if he considers himself eligible and he is in possession of all the documents required.

The Bidder if required may submit queries in writing on E-mail. smartcitycell@bmconline.gov.in before 19.05.2017 up to 12.00 Noon.

MEMORANDUM

S.No.	Description	Cl.No.of NIT/ITT/Clauses of Contract(CC)	Values/Description to be Applicable for Relevant Clause (S)
1)	Name of Work		“Design, Engineering, Supply and Installation of 24x7 Control and command center Interiors”
2)	Client/Owner		BSCDCL, Bhopal
3)	Type of Tender		Item Rate tender
4)	Earnest Money Deposit		Rs 2,92,848.00(Two lakhs ninety two thousands hundred forty eight only)
5)	Estimated Cost		29284853.00 (Two crore ninety two lakhs eighty four thousands eight hundred fifty three only)
6)	Time allowed for Completion of Work		09 Months
7)	Mobilization Advance		10% of contract value
8)	Interest Rate of Mobilization Advance		Simple Interest Rate of 10 % Percent only) (Per Annum)
9)	Schedule of rates applicable		NON SOR, Electrical DSR-2016
10)	Validity of Tender		90 (Ninety) Days
11)	Performance Guarantee		5 % (Five Percent Only) of contract value within 30 days from the issue of Letter of Award
12)	Security Deposit/Retention Money		5.00% (Five Percent Only) of the gross value of each running bill.
13)	Time allowed for starting the work		The date of start of contract shall be reckoned from 10 days after the date of issue of letter of Award.
14)	Defect Liability Period		12 month from the date of taking over of the work by the BSCDCL or time allowed whichever is earlier.

(A) Information and Instructions for Bidders posted on Website(s) shall form part of Tender Document.

The Tender Document as uploaded can be viewed and downloaded free of cost by anyone including intending Bidder. But the tender can only be submitted after uploading the mandatory scanned documents such as

- a) Proof of e-payment towards cost of tender document,
- b) Proof of online payment through e-portal www.mpeproc.gov.in/ Bank Guarantee of any Nationalized or Commercial Scheduled Bank against EMD in favor CEO, BSCDCL & All other documents shall be as per Notice Inviting e-tender.

The Bidders are required to quote strictly as per terms and conditions, specifications, standards given in the tender documents and not to stipulate any deviations.

After submission of the tender the Bidder can re-submit revised tender any number of times but before last time and date of submission of tender as notified.

When it is desired by BSCDCL to submit revised financial tender then it shall be mandatory to submit revised financial tender. If not submitted then the tender submitted earlier shall become invalid.

On opening date, the Bidder can login and see the tender opening process.

Contractor can upload documents in the form of JPG format and PDF format.

Contractor to upload scanned copies of all the documents including valid service tax registration/EPF registration/VAT registration/Sales Tax registration, PAN NO, TANNNO. as stipulated in the tender document.

If the contractor is found ineligible after opening of tenders, his tender shall become invalid and cost of tender document and processing fee shall not be refunded. If any discrepancy is noticed between the documents as uploaded at the time of submission of tender and hard copies as submitted physically by the contractor the tender shall become invalid and cost of tender document and processing fee shall not be refunded. Notwithstanding anything stated above, BSCDCL reserves the right to assess the capabilities and capacity of the Bidder to perform the contract, in the overall interest of BSCDCL. In case, Bidder's capabilities and capacities are not found satisfactory, BSCDCL reserves the right to reject the tender.

Certificate of Financial Turn Over:

At the time of submission of tender, the tender shall upload Certificate from Chartered Accountant mentioning Financial Turnover of last 3 years or for the period as specified in the tender document and further details if required may be asked from the Bidder after opening of technical tenders. There is no need to upload entire voluminous balance sheet.

In case of Percentage Rate Tender, Contractor must ensure to quote single percentage rate. Quote should be in percentage higher or below on the SOR Rates the same is to quoted in the form of decimal only. For example if contractor wants to quote 5 percent higher then he have to quote 1.05 and if he wants to quote 5 [percent below he have to quote 0.95 in given column of financial bid sheet.

In case of Item Rate Tender, price shall be entered against each item in the Bill of Quantities / Schedule of Quantities. The cost of item against which the contractor has failed to enter a rate or price shall be deemed to be covered by rates and prices of other items in Bill of Quantities / Schedule of Quantities and no payment shall be made for the quantities executed for items against which rate has not been quoted by the contractor.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the Bidder, rate of such item shall be Treated as "0" (ZERO).

SECTION-2
INSTRUCTIONS TO BIDDER

Instruction to Bidder (ITT)

A. GENERAL INSTRUCTIONS:

2.1. General terms of Bidding-

2.1.1.1 No Bidder shall submit more than one BID for the Project.

2.1.1.2 List of Documents to be scanned and uploaded within the period of tender submission:

- a. Proof of online payment / Bank Guarantee of any Nationalized or all commercial Scheduled Bank against EMD through online payment from MP eProcurement E-tendering portal www.mpeproc.gov.in
- b. Copy of documents related to qualifying requirement of bidders as per NIT clause
- c. Letter of Acceptance of tender condition unconditional as per format enclosed in Annexure-II.
- c. Certificate of Financial Turnover duly certified by CA as indicated above.
- d. Valid service tax registration, EPF registration, ESIC, VAT registration, SalesTax registration, PAN No, TAN No.
- e. Acknowledgement towards cost of tender fee submission.
- f. All pages of all the Corrigendum (if any) duly signed by the authorized person.

2.1.2 The Feasibility Report / Preliminary Project Report of the Project has been assessed however the Bidders are expected to carry out their own surveys, investigations and other Preliminary examination of the Project before submitting their Bids. Nothing contained in the attached drawings/BOQ shall be binding on the BSCDCL nor confer any right on the Bidders, and the BSCDCL shall have no liability whatsoever in relation to or arising out of any or all contents of TENDER.

2.1.3 Notwithstanding anything to the contrary contained in this RFP, the Preliminary terms specified in the draft Agreement shall have overriding effect; provided, however, that any conditions or obligations imposed on the Bidder hereunder shall continue to have effect in addition to its obligations under the Agreement.

2.1.4 The BID shall be furnished in the format exactly as per RFP i.e. Technical Bid as per RFP and Financial Bid as per RFP. BID amount shall be indicated clearly in both figures and words, in Indian Rupees in prescribed format of Financial Bid and it will be signed by the Bidder's authorized signatory. In the event of any difference between figures and words, the amount indicated in words shall be taken into account.

2.1.5 The Bidder shall deposit a BID Security (EMD) of Rs 2,92,848.00(Two lakhs ninety two thousands eight hundred forty eight only)+ Applicable taxes in accordance with the provisions of this RFP. The Bidder has to provide the BID Security (EMD) through online payment or in the form of a Bank Guarantee to the Name of CEO BSCDCL.

2.1.6 The validity period of the Bank Guarantee, shall not be less than 180 (one hundred and eighty) days from the BID Due Date, inclusive of a claim period of 60 (Sixty) days, and may be extended as may be mutually agreed between the BSCDCL and the Bidder.

2.1.7 The BID shall be summarily rejected if it is not accompanied by the BID Security. The BID Security shall be refundable no later than 150 (one hundred and fifty) days from the BID Due Date except in the case of the Selected Bidder whose BID Security shall be retained till it has provided a Performance Security under the Agreement.

2.1.8 The Bidder should submit a Power of Attorney as per the format as per RFP Authorizing the signatory of the BID to commit the Bidder.

2.1.9 Any condition or qualification or any other stipulation contained in the BID shall render the BID liable to rejection as a non-responsive BID.

2.1.10 The BID and all communications in relation to or concerning the Bidding Documents and the BID shall be in English language.

2.1.11 The documents including this RFP and all attached documents, provided by the BSCDCL are and shall remain or become the property of the BSCDCL and are Transmitted to the Bidders solely for the purpose of preparation and the submission of a BID in accordance herewith. Bidders are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their BID. The provisions of this Clause shall also apply mutatis mutandis to BIDs and all other documents submitted by the Bidders, and the BSCDCL will not return to the Bidders any BID, document or any information provided along therewith.

2.1.12 This RFP is not transferable.

2.1.13 Any award of Project pursuant to this RFP shall be subject to the terms of Bidding Documents and also fulfilling the criterion as mentioned in clause while bidding is open to persons from any country, the following provisions shall apply then the Eligibility of such Bidder shall be subject to approval of the BSCDCL from national security and public interest perspective. The decision of the BSCDCL in this behalf shall be final and conclusive and binding on the Bidder. The holding or acquisition of equity or control, as above, shall include direct or indirect holding/ acquisition, including by transfer, of the direct or indirect legal or beneficial ownership or control, by persons acting for themselves or in concert and in determining such

holding or acquisition, the BSCDCL shall be guided by the principles, precedents and definitions contained in the Securities and Exchange Board of India (Substantial Acquisition of Shares and Takeovers) Regulations, 1997, or any substitute thereof, as in force on the date of such acquisition. The Bidder shall promptly inform the BSCDCL of any change in the shareholding, as above, and failure to do so shall render the Bidder liable for disqualification from the Bidding Process.

2.1.14 Notwithstanding anything to the contrary contained herein, in the event that the Bid Due Date falls within three months of the closing of the latest financial year of a Bidder, it shall ignore such financial year for the purposes of its Bid and furnish all its information and certification with reference to the 5 (five) years or 1 (one) year, as the case may be, preceding its latest financial year. For the avoidance of doubt, financial year shall, for the Purposes of a Bid hereunder, mean the accounting year followed by the Bidder in the course of its normal business.

2.1.15 Any entity which has been barred by GOI or Govt of Madhya Pradesh, MP DISCOM for the works of expressways, National highways, ISC and EI works, and the bar subsists as on the Bid Due Date, would not be eligible to submit the BID.

2.1.16 The BSCDCL reserves the right to reject an otherwise eligible bidder on the basis of the information given in this tender document. The decision of the BSCDCL in this case shall be final.

2.2 Eligibility and qualification requirements of Bidder

2.2.1 For determining the eligibility of Bidder the following shall apply:

(a) The Bidder may be a single entity or Consortium, coming together to implement the Project. However, no Bidder applying individually or as a member of a Consortium, as the case may be, can be member of another Bidder. The term Bidder used herein would apply to both a single entity and a Consortium.

(b) Bidder may be a natural person, private entity, or any combination of them with a formal intent to enter into a Consortium agreement or under an existing agreement to form a Consortium. A Consortium shall be eligible for consideration subject to the conditions.

(c) A Bidder shall not have a conflict of interest (the "Conflict of Interest") that affects the Bidding Process. Any Bidder found to have a Conflict of Interest shall be disqualified and liable for forfeiture of the BID Security or Performance Security as the case may be. A Bidder shall be deemed to have a Conflict of Interest affecting the Bidding Process, if:

(d) A Bidder shall be liable for disqualification and forfeiture of BID Security, if any legal, financial or technical adviser of the BSCDCL in relation to the Project is engaged by the Bidder, its Member or any Associate thereof, as the case may be, in any manner formatters related to or incidental to such Project during the Bidding Process or subsequent to the (i) issue of the LOA or (ii) execution of the Agreement. In the even though such adviser is engaged by the selected Bidder or Contractor, as the case may be, after issue of the LOA or execution of the Agreement for matters related

or incident also the project, then notwithstanding anything to the contrary contained herein or in the LOA or the Agreement and without Prejudice to any other right or remedy or the BSCDCL, including the forfeiture and appropriation of the BID Security or Performance Security, as the case may be, which the BSCDCL may have there under or otherwise, the LOA or the Agreement, as the case may be, shall be liable to be terminated without the BSCDCL being liable in any manner whatsoever to the Selected Bidder or Contractor for the same. For the avoidance or doubt, this disqualification shall not apply where such adviser was engaged by the Bidder, its Member or Associate in the past but its assignment expired or was terminated 6 (six) months prior to the date of issue of this RFP. Nor will this disqualification apply where such adviser is engaged after a period of 3 (three) years from the date of commercial operation of the Project.

Other Instructions:-

The pre-qualification / enlistment of the contractors should be valid on the last date of submission of tenders. In case the last date of submission of tender is extended, the pre-qualification of contractor should be valid on the original date of submission of tenders.

The tender document as uploaded can be seen on website www.mpeproc.gov.in and can be downloaded free of cost.

Mode of Submission: Earnest Money Deposit

Earnest Money Deposit of amount as mentioned in “NIT/ Memorandum (Annexure-I)” required to be submitted online only or Bank Guarantee from any Nationalized or all Commercial scheduled banks in the enclosed format. The EMD shall be valid for minimum period of 150 (One Hundred Fifty) days from last day of submission of Tender. The EMD shall be scanned and uploaded to the e-Tendering website within the period of tender submission and original should be deposited in office of BSCDCL

The EMD of all unsuccessful Bidders will be returned within thirty (30) days of the Award of the contract to successful Bidder or after the receipt of their BGs verified from the Zonal office of the issuing Bank, whichever is later. No interest will be payable by the BSCDCL on the said amount covered under EMD/Any other Security Deposit.

Interested contractor who wish to participate in the tender has also to make following payments through online payment only.

Cost of Tender Document – **Rs. 15000/-** To be submit online only/-
*X% shall be as prevailing on the date of NIT e- Tender Processing Fee – As applicable for MPEPROC portal.

EMD/ Tender document fees should be submitted online or in the form of Bank Guarantee against EMD, Cost of Tender Document and, e-Tender Processing Fee online payment receipt accordingly, shall be placed in single sealed envelope superscripted as “Earnest Money, Cost of Tender Document and Cost of e-Tender Processing Fee” with name of work and due date of opening of the tender also mentioned there on.

Copy of pre-qualification/enlistment letter and certificate of work experience (if required) and other documents as specified in the tender shall be scanned and uploaded to the e-Tendering website within the period of tender submission and certified copy of each shall be deposited in a separate envelope marked as “Other Documents”.

Both the envelopes shall be placed in another envelope with due mention of Name of work, date & time of opening of tenders and to be submitted in the office of BSCDCL after last date & time of submission of tender.

Online technical tender documents submitted by intending Bidders shall be opened only of those Bidders, who are Earnest Money Deposit, Cost of Tender Document and e-Tender Processing Fee and other documents placed in the envelope are found in order. The Price tender of those Bidders whose documents found to be in order shall be opened. The date of opening of price tender shall be informed to the Bidder.

The tender submitted shall become invalid if:

- The Bidder is found ineligible.
- The Bidder does not upload all the documents (including service tax registration/VAT registration/Sales Tax Registration) as stipulated in the tender document. If any discrepancy is noticed between the documents as uploaded at the time of submission of tender and hard copies as submitted physically in the office of tender opening authority.

VALIDITY OF TENDER

The tender for the works shall remain open for acceptance for a period of Ninety (90) days from the date of opening of financial tender. If any Bidder withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the BSCDCL, then the BSCDCL shall, without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money as aforesaid. Further the Bidders shall not be allowed to participate in the retendering process of work.

ACCEPTANCE OF TENDER

BSCDCL reserves the right to reject any or all the tenders in part or full without assigning any reason whatsoever. BSCDCL does not bind itself to accept the lowest tender. The BSCDCL reserves the right to award the work to a single party or split the work amongst two or more parties as deemed necessary without assigning any reason thereof. The Contractor is bound to accept the part work as offered by BSCDCL after split up at the quoted/negotiated rates.

The tenders shall be strictly as per the conditions of contract. Tenders with any additional condition(s)/modifications shall be rejected.

The witnesses to the Tender/Contract Agreement shall be other than the Bidder/Bidders competing for this work and must indicate full name, address, and status/occupation with dated signatures.

The acceptance of tender will rest with the BSCDCL who does not bind itself to accept the lowest tender and reserves to itself the right to reject any or all the tenders received without assigning any reason thereof. Tenders in which, any of the prescribed conditions are not fulfilled or found incomplete in any respect are liable to be rejected.

On acceptance of tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from Engineer-in-Charge or its authorized representative shall be intimated by the contractor within 07 days of issue date of letter of Awards by BSCDCL.

The Bidder shall not be permitted to tender for works if his near relative is posted in the project office or concerned Zonal Office of the BSCDCL. The contractor shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any of the officers in BSCDCL. Any breach of this condition by the Bidder would render him liable to the withdrawal of the work awarded to him and forfeiture of Earnest Money and Security Deposit. This may also debar the contractor from tendering for future works under BSCDCL. For the purpose of operation of this clause a near relative shall mean wife, husband, parents, grandparents, children, grandchildren, brothers, sisters, uncles, aunts, cousins and their corresponding in-laws. The time of completion of the entire work, as contained in contract shall be as mentioned in "Memorandum - which shall be reckoned from the 10th day after issue of the letter of Award by the BSCDCL. Canvassing whether directly or indirectly, in connection with Bidders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.

The tender award, execution and completion of work shall be governed by tender documents consisting of (but not limited to) Letter of Award/Letter of work order, Bill of Quantities, Special Conditions of Contract, General Conditions of Contract, Specifications, Drawings. The Bidders shall be deemed to have gone through

the various conditions including sub-soil water conditions, topography of the land, drainage and accessibility etc. or any other condition which in the opinion of contractor will affect his price/rates before quoting their rates. No claim whatsoever against the foregoing shall be entertained.

The drawings with the tender documents are Tender Drawing and are indicative only.

ADDENDA/ CORRIGENDA

Addenda/Corrigenda to the tender documents may be issued prior to the date of submission of the tender to clarify or effect modification in specification and/or contract terms included in various tender documents. The Bidder shall suitably take into consideration such Addenda/Corrigenda while submitting his tender. The Bidder shall return such Addenda/ Corrigenda duly signed and stamped as confirmation of its receipt & acceptance and submit along with the tender document. All addenda/ Corrigenda shall be signed and stamped on each page by the Bidder and shall become part of the tender and contract documents.

SITE VISIT AND COLLECTING LOCAL INFORMATION

Before tendering, the Bidders are advised to visit the site, its surroundings to assess and satisfy themselves about the local conditions such as the working and other constraints at site, approach roads to the site, availability of water & power supply, application of taxes, duties and levies as applicable & any other relevant information required by them to execute complete scope of work. The Bidder may obtain all necessary information as to risks, weather conditions, contingencies & other circumstances (insurgencies etc.) which may influence or affect their tender prices. Bidder shall be deemed to have considered site conditions whether he has inspected it or not and to have satisfied himself in all respect before quoting his rates and no claim or extra charges whatsoever in this regard shall be entertained / payable by the BSCDCL at a later date.

ACCESS BY ROAD

Contractor, if necessary, shall build temporary access roads to the actual site of construction for the works at his own cost to make the site accessible. The Contractor shall maintain the same in motorable condition at all the times as directed by Engineer-in-Charge at his own cost. The contractor shall be required to permit the use of any roads so constructed by him for vehicles of BSCDCL or any other agencies/ contractors who may be engaged on the project site, free of cost.

Non-availability of access roads or approach to site, for the use of the contractor shall in no case condone any delay in the execution of work nor be the cause for any claim for compensation.

HANDING OVER & CLEARING OF SITE

The Contractor should note that area for construction may be made available in phases as per availability and in conjunction with pace of actual progress of work at site. The work may be required to be carried out in constrained situations. The work is to be carried out in such a way that the traffic, people movement, if any, is kept operative and nothing extra shall be payable to the contractor due to this phasing / sequencing of the work. The contractor is required to arrange the resources to

complete the entire project within total stipulated time. Traffic diversion, if required, is to be done and maintained as per requirement of local traffic police or/and as per specification, by the contractor at his own cost and the contractor shall not be entitled for any extra payment, whatsoever, in this regard.

The efforts will be made by the BSCDCL to handover the site to the Contractor free of encumbrances. However, in case of any delay in handing over of the site to the Contractor, the BSCDCL shall only consider suitable extension of time for the execution of the work. It should be clearly understood that the BSCDCL shall not consider any revision in contract price or any other compensation whatsoever viz. towards idleness of Contractor's labour, equipment etc.

Minor civil work including demolition of the proposed side, if required shall be done by the contractor properly at his own cost unless and otherwise mentioned elsewhere in tender documents in workmanship like at the place specified by the Engineer-in-charge.

Necessary arrangement including its maintenance is to be made by the contractor for temporary diversion of flow of existing drain and road, as the case may be. The existing drain, road would be demolished, wherever required, with the progress of work under the scope of proposed project. The existing Road and Drain which are not in the alignment of the said project but are affected and/ or need to be demolished during execution for smooth progress of the project, shall be rehabilitated to its original status and condition (including black topping) by the contractor at his own cost. The cost to be incurred by contractor in this regards shall be deemed to be included in the quoted rates of the bill of quantity items and contractor shall not be entitled for any extra payment whatsoever in this regard. The information about the public utilities (whether over ground or underground) like electrical/ telephone/ water supply lines, OFC Cables, open drain etc. is the responsibility of contractor to ascertain the utilities that are to be affected by the works through the site investigation.

The contractor shall be responsible to obtain necessary approval from the respective authorities for shifting/ re-alignment of existing public utilities. BSCDCL shall only assist the contractor for liaisoning in obtaining the approval from the concerned authorities. Any services affected by the works must be temporarily supported by the contractor who must also take all measures reasonably required by the various bodies to protect their services and property during the progress of works. It shall be deemed to be the part of the contract and no extra payment shall be made to the contractor for the same.

ACCEPTANCE OF TENDER CONDITIONS

From: (On the letter head of the company by the authorized officer having power of attorney)

BSCDCL Limited,

Sub: Name of the work & NIT No.:

Sir,

This has reference to above referred tender. I/We are pleased to submit our tender for the above work and I/We hereby unconditionally accept the tender conditions and tender documents in its entirety for the above work.

I/we are eligible to submit the tender for the subject tender and I/We are in possession of all the documents required.

I/We have viewed and read the terms and conditions of this GCC/SCC carefully. I/We have downloaded the following documents forming part of the tender document:

- a) Notice Inviting e-Tender. (pg- to pg-)
- b) Quoting Sheet for Bidder (pg- to pg-)
- c) Instructions to Bidders & General Conditions of Contract (Vol- I/2013)
:(pg- to pg-)
- d) Technical Specifications (Vol-II) (pg- to pg-)
- e) Bill of Quantities (Vol-III) (pg- to pg-)
- f) Tender Drawing (pg- to pg-)
 Acceptance of Tender Conditions (Annexure II)
- g) Corrigendum, if any (pg- to pg-)

I/we have uploaded the mandatory scanned documents such as cost of tender document, EMD, e-Tender Processing Fee and other documents as per Notice Inviting e-tender AND I/We agree to pay the cost of tender document, EMD, e-Tender Processing Fee (only receipt/proof of online payment) and other documents in physical form in the form and manner as described in NIT/ITT.

Should this tender be accepted, I/We agree to abide by and fulfill all terms and conditions referred to above and as contained in tender documents elsewhere and in default thereof, to forfeit and pay BSCDCL, or its successors or its authorized nominees such sums of money as are stipulated in the notice inviting tenders and tender documents.

If I/we fail to commence the work within 10 days of the date of issue of Letter of Award and/or I/we fail to sign the agreement as per Contract and/or I/we fail to submit performance guarantee as per of Clauses of Contract, I/we agree that BSCDCL shall, without prejudice to any other right or remedy, be at liberty to cancel the Letter of Award and to forfeit the said earnest money as specified above.

Yours faithfully

(Signature of the Bidder with rubber stamp)

Dated

SECTION-3

CLAUSES OF CONTRACT

CLAUSES OF CONTRACT(CC)

DEFINITIONS

The Contract means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of BSCDCL and the contractor, together with the documents referred to therein including these conditions, the specifications,

Designs, drawings and instructions issued from time to time by the Engineer-in- Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.

Bhopal Smart City Development Corporation Limited, hereinafter called 'BSCDCL' proposes to get the works executed as mentioned in the Contract on behalf of Owner/ Client as Implementing agency/Executing Agency.

- 3.1 In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-

APPROVAL means approved in writing including subsequent written confirmation of previous verbal approval.

BILL OF QUANTITIES or **SCHEDULE OF QUANTITIES** means the priced and completed Bill of Quantities or Schedule of Quantities forming part of the tender.

CONTRACTOR shall mean the individual, firm, LLP or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or LLP or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.

CONTRACT VALUE means the sum for which the tender is accepted as per the letter of Award.

DRAWINGS mean the drawings referred to in the contract document including modifications if any and such other drawings as may from time to time be furnished and/ or approved by BSCDCL.

DATE OF COMMENCEMENT OF WORK: The date of start of contract shall be reckoned from 10 days after the date of issue of letter of Award.

ENGINEER-IN-CHARGE means the Engineer of BSCDCL who shall supervise and be in-charge of the work.

LANGUAGE: All documents and correspondence in respect of this contract shall be in English Language.

- i) "LETTER OF AWARD" shall mean BSCDCL's letter or notification conveying its acceptance of the tender subject to such conditions as may have been stated therein.

MONTH means English Calendar month 'Day' means a Calendar day of 24 Hrs each BSCDCL shall means Bhopal Smart City Development Corporation Limited, a company registered under the Indian Company Act, with its registered office at Near Tatpar Petrol Pump, Sector A, Berkheda, Bhopal, Madhya Pradesh 462023 or its Administrative officers or its engineer or other employees authorized to deal with any matter with which these persons are concerned on its behalf.

OWNER/ CLIENT means the Government, Organization, Ministry, Department, Society, Cooperative, JV Entities (whether incorporated or unincorporated or registered as the case may be) etc. who has awarded the work/ project to BSCDCL and/ or appointed BSCDCL as Implementing / Executing Agency/ Project Manager and/ or for whom BSCDCL is acting as an agent and on whose behalf BSCDCL is entering into the contract and getting the work executed.

SCHEDULE(s) referred to in these conditions shall mean the standard schedule of rates of the government mentioned in the Memorandum (Annexure-I) with the amendments thereto issued up to the date of receipt of the tender.

- ii) SITE means the lands and other places on, under, in or through Which the works are to be executed or carried out and any other lands or places provided by BSCDCL/client/owner or used for the purpose of the contract.
- iii) TENDER means the Contractor's priced offer to BSCDCL for the execution and completion of the work and the remedying of any defects therein in accordance with the provisions of the Contract, as accepted by the Letter of Award or Award letter. The word TENDER is synonymous with Tender and the Word TENDER DOCUMENTS with "Tendering Documents" or "offer documents".

WRITING means any manuscript typed written or printed statement under or over signature and/or seal as the case may be.

Works or Work shall unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.

The headings in the clauses/ conditions of tender documents are for convenience only and shall not be used for interpretation of the clause/ condition.

Words imparting the singular meaning only also include the plurals and vice versa where the context requires. Words importing persons or parties shall include firms and corporations and organizations having legal capacities.

Excepted Risk are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the BSCDCL or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to BSCDCL's faulty design of works.

Market Rate shall be the rate as decided by the Engineer-in-Charge on the basis of the prevailing cost of materials and labour at the site where the work is to be executed plus the percentage mentioned elsewhere in the tender document to cover, all overheads and profits.

PERFORMANCE GUARANTEE:

“Within 30 (Thirty) days from the date of issue of letter of Award or within such extended time as may be granted by BSCDCL in writing, the contractor shall submit to BSCDCL an irrevocable performance bank guarantee in the form appended, from any Nationalized Bank or all Commercial schedule bank equivalent to 5 % (Five per cent only) of the contract value for the due and proper execution of the Contract. The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case the time for completion of works gets extended, the contractor shall get the validity of Performance Guarantee extended to cover such extended time for completion of work.

BSCDCL reserve the right of forfeiture of the performance guarantee in the event of the contractor's failure to fulfill any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract.

Performance guarantee shall be returned after 3 months of completion of project and retention money shall be returned after completion of DLP(Defect Liability Period)

In case the contractor fails to submit the performance guarantee of the requisite amount within the stipulated period or extended period, letter of Award automatically will stand withdrawn and EMD of the contractor shall be forfeited.

SECURITY DEPOSIT/ RETENTION MONEY

The Security deposit or the retention money shall be deducted from each running bill of the contractor @ 5% (five per cent only) of the gross value of the Running Account bill. Earnest money shall be adjusted first in the security deposit and further recovery of security deposit shall commence only when the upto date amount of security deposit exceeds the earnest money deductible under this clause. No Interest shall be paid on amount so deducted.

Security deposit will be released after completion of DLP(Defect Liability Period)

The release/refund of security deposit of the contractor shall be subject to the observance/compliance of the conditions as under and whichever is later:

- a) Expiry of the defect liability period in conformity with provisions contained in clause (Defect liability clause). The expiry of defect liability period shall be extended from time to time depending upon extension of time granted by BSCDCL.

The contractor produces a clearance certificate from the labour office. As soon as the work is virtually completed, the contractor shall apply for the labour clearance

certificate to the Labour Officer under intimation to the Engineer-in-Charge. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate.

3.2 BSCDCL reserves the right of part or full forfeiture of security deposit in addition to other claims in the event of contractor's failure to fulfill any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract.

MOBILIZATION ADVANCE

Mobilization advance up to maximum of amount as mentioned in the "Memorandum (Annexure-I)" shall be paid to the contractor, if requested by him, on submission of irrevocable Bank Guarantee valid for contract period of an amount 1.2 times of the mobilization advance to take care of advance and interest at prescribed rate from a nationalized bank or all Commercial scheduled bank in the enclosed Performa. The Mobilization advance shall be interest bearing @ as mentioned in the "Memorandum (Annexure-I)".

This advance shall be paid in three installments as follows:

First Installment of fifty percent of total mobilization advance shall be paid after the agreement is signed and upon submission of performance guarantee for full amount as specified.

2nd installment of twenty five percent of total mobilization advance will be paid after the setting up of site office and site laboratory, complete mobilization of plant and machinery, scaffolding & shuttering materials etc.

The Balance twenty five percent of total mobilization advance shall be paid on completion of 10% of work in terms of cost and after the contractor has fully mobilized the work at site.

The mobilization advance bear simple interest at the rate as mentioned in the Memorandum (Annexure-I) and shall be calculated from the date of payment to the date of recovery (365 days in a year) both days inclusive, on the outstanding amount of advance. Recovery of such mobilization advanced including interest shall be made by the deduction from the contractor's bills commencing after first ten percent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered either by the time eighty percent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment or on expiry of eighty percent of contract period (i.e. time allowed for completion of work in terms of Memorandum- Annexure-I) whichever is earlier.

The bank guarantee submitted by contractor against mobilization advance shall initially be made for the full amount as mentioned in para 4.1 above

and valid for the contract period, and be kept renewed from time to time to cover the balance amount and likely period of completion of recovery together with interest. However, the contractor can submit part bank guarantees against the mobilization advance in as many numbers as per proposed number of recovery installments equivalent to the amount of each installment.

Notwithstanding what is contained above, no mobilization advance whatsoever shall be payable, if payment of mobilization advance is not mentioned in the Memorandum (Annexure-I).

SECURED ADVANCE AGAINST NON-PERISHABLE MATERIALS

Interest free secured advance up-to a maximum of 75 % (seventy five percent) of the Market Value of the Materials or the 75 % (seventy five percent) cost of materials as derived from the tendered item rate of the contractor, whichever is less, required for incorporation in the permanent works and brought to site and duly certified by BSCDCL site Engineer shall be paid to the Contractor for all non - perishable items as per UADD/MPPW D/CPWD norms. The advance will be paid only on submission of Indemnity Bond in the prescribed pro-forma. The advance shall be recovered in full from next Running Account bill and fresh advance shall be paid for the balance quantities of materials. The contractor shall construct suitable go-down at the site of work for safe storage of the materials against any possible damages due to sun, rain, dampness, fire, theft etc. at his own cost. He shall also employ necessary watch & ward establishment for the purpose at his costs and risks.

Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-in-Charge shall be final and binding on the contractor in this matter. No secured advance shall however, be paid on high risk materials such as ordinary glass, sand, petrol, diesel etc.

DEVIATIONS / VARIATIONS EXTENT AND PRICING

The Engineer-in-Charge shall have power (i) to make any alterations in, omissions from, additions to or substitutions for, the original specifications, drawings, designs and instructions that may appear to him to be necessary during the progress of the work, (ii) to omit part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions, or substitutions shall form part of the contract as if originally provided therein and any altered, additions or substituted works which the contractor may be directed to do in the manner specified above as part of the work, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereunder provided:

The time for the completion of the work shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered be extended, if requested by the contractor, as follows:

in the proportion which the additional cost of the altered, additional or substituted work bears to the original tendered value plus

25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.

If the extra items includes any work for which no rate is specified in the contract, then such work shall be carried out at the rates entered in the schedule of rates (as mentioned in Memorandum (Annexure-I)) for Civil/ Sanitary Works minus/plus the percentage which the tendered amount of scheduled items bears with the estimated amount of schedule items based on the Schedule of Rates (as mentioned in Memorandum (Annexure-I) for Civil/ Sanitary Works). The scheduled item means the items appearing in the Schedule of Rates (as mentioned in Memorandum (Annexure-I) for Civil/ Sanitary Works) which shall be applicable in this clause. This clause will apply mutates mutandis to electrical work except that Electrical Schedule of Rates as mentioned in Memorandum (Annexure-I) will be considered in place of Civil/ Sanitary works Schedule of rates as mentioned in Memorandum (Annexure-I)

However, In the case of extra item(s), (items that are completely new, and are in addition to the items contained in the contract, and not included in the schedule of rates (as mentioned in Memorandum (Annexure-I)), the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the engineer-in-charge shall within one month of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para:

If the market rate for the substituted item so determined is more than the market rate of agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

If the market rate for the substituted item so determined is less than the market rate of the agreement (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted)

In the case of contract item(s), substituted item(s), contract cum substituted items, which exceed the limits laid down in Memorandum (Annexure-I), the contractor shall within fifteen days of receipt of order of occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the scheduled of quantities, the Engineer-in-Charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the Contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Memorandum (Annexure-I), and the Engineer-in-charge shall after giving notice of the contractor within one month of

occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

Any operation incidental to or necessarily has to be in contemplation of Bidder while filling, tender or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not specifically indicated in the description of the item and the relevant specifications shall be deemed to be included in the rates quoted by the Bidder or the rate given in the said schedule or rates as the case may be Nothing extra shall be admissible for such operations.

Market Rates to be determined as per clauses given in the tender document shall be on the basis of Prevailing rates of Material (unless mentioned otherwise), Relevant Labour authority rate for Labour, market rates of T&P etc. plus 15% towards Contractors' Profits and Overheads.

The following factors may be considered in the justification of rates on which

Contractor's overhead & profit shall not be applicable:

Buildings and Other Construction Worker Cess as applicable in the state of work place

EPF (Employer Contribution) component, as per EPF act on the portion of labour's wages

VAT on works contract / WCT, as per composite scheme in the State of work place, if applicable Service Tax

ESCALATION

No claim on account of any escalation on whatsoever ground shall be entertained at any stage of works. All rates as per Bill of Quantities (BOQ) quoted by contractor shall be firm and fixed for entire contract period as well as extended period for completion of the works. No escalation shall be applicable on this contract.

COMPENSATION FOR DELAY

If the contractor fails to maintain the required progress in terms of clause or relevant clause of GCC & Special Conditions of Contract, to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the BSCDCL on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the Engineer in charge (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day / week (as applicable) that the progress remains below that specified in Clause

or the relevant clause in GCC & Special Conditions of Contract or that the work remains incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified

i) Compensation for delay of work @ 1.5% per month delay to be computed on daily basis.

Provided always that the total amount of compensation for delay to be paid under this

Condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the item or group of items of work for which a separate period of completion is originally given. The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with BSCDCL.

In case, the contractor does not achieve a particular milestone mentioned elsewhere in the tender document, or the re-scheduled milestone(s) the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of Extension of Time. With-holding of this amount or failure to achieve a milestone, shall be automatic without any notice to the Contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

ACTION IN CASE WORK NOT DONE AS PER SPECIFICATIONS

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the BSCDCL or any organization engaged by the BSCDCL for Quality Assurance and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself. If it shall appear to the Engineer-in-charge or his authorized subordinates in-charge of the work or to the officer of Quality Assurance or his subordinate officers or the officers of the organization engaged by the BSCDCL for Quality Assurance or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months of the completion of the work from the Engineer- in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as given in this tender document (for non-completion of the work in time) for this default. In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the Engineer in charge may consider reasonable during the preparation of on account

bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re- executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

ACTION IN CASE OF BAD WORK

If it shall appear to the Engineer-in-Charge or his authorized representative in charge of the work or to the Chief Technical Examiner or to any other inspecting agency of Government/ State Government/ Owner where the work is being executed, that any work has been executed with unsound, imperfect, or unskillful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, the contractor shall on demand in writing which shall be made within twelve months of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, Certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own proper charge and cost, and in the event of his failing to do so within a period to be specified by the Engineer-in-Charge in his demand aforesaid while the contractor failure to do so shall continue, the Engineer-in- Charge may rectify or remove and re-execute the work or remove and replace with others, the material or articles complained of as the case may be at the risk and expense in all respects of the contractor.

CANCELLATION/DETERMINATION OF CONTRACT IN FULL OR PART

Subject to other provisions contained in this clause the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and / or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workmanlike manner shall omit to comply with the requirement of such notice for a period of seven days thereafter; or

If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Engineer-in-Charge (which shall be final and binding) he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the Engineer-in-Charge; or

If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge; or

If the contractor persistently neglects to carry out his obligations under the contract and / or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge; or

If the contractor shall offer or give or agree to give to any person in BSCDCL service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any action relation to the obtaining or execution of this or any other contract for BSCDCL; or

If the contractor shall enter into a contract with BSCDCL in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge; or

If the contractor shall obtain a contract with BSCDCL as a result of wrong tendering or other non-bona-fide methods of competitive tendering or commits breach of Integrity Pact; or

If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors; or If the contractor being a company, shall pass a resolution or the Court shall make an order for the winding up of the company, or a receiver or manager on behalf of the debenture holders or otherwise shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager; or If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days, or. If the contractor assigns, transfers, sublets (engagement of labour on a piece-work basis or of the labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer sublet or otherwise parts with the entire works or any portion thereof without and prior written approval of the Engineer-in-Charge.

When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge may without prejudice to any other right or remedy which shall have accrued or shall accrue hereafter to BSCDCL, by a notice in writing to cancel the contract as whole or only such items of work in default from the Contract, the Engineer-in-charge shall have powers:

Take possession of site and any materials, constructional plant, implements, stores, etc. thereon; and/ or

Carry out the incomplete work by any means at the risk and cost of the contractor; and/ or

The Engineer-in-charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by BSCDCL because of action under this clause shall not exceed 10% of the tendered value of the work.

To determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination or rescission the full security deposit recoverable under the contract and performance guarantee shall be liable to be forfeited and un-used materials, construction plants, implements, temporary buildings, etc. shall be taken over and shall be absolutely at the disposal of the BSCDCL. If any portion of the Security Deposit has not been paid or received it would be called for and forfeited; and/ or

To employ labour paid by the BSCDCL and to supply materials to carry out the work or any part of the work debiting the contractor with the cost of the labour and the price of the materials of the amount of which cost and

price certified by the Engineer-in-Charge shall be final and conclusive) against the contractor and crediting him with the value of the work done in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Engineer-in-Charge as to the value of the work done shall be final and conclusive against the contractor provided always that action under the sub-clause shall only be taken after giving notice in writing to the contractor. If the expenses incurred by the BSCDCL are less than the amount payable to the contractor at his agreement rates, the difference shall not be paid to the contractor; and/ or

After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof as shall be un-executed or delayed with reference to the General Conditions of Contract and/ or relevant clause of Condition Special of Contract, out of his hands and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which excess the certificate in writing of the Engineer-in-Charge shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by BSCDCL under his contract or on any other account whatsoever or from his security deposit or the proceeds of sales of unused materials, construction plants, implements temporary buildings etc. thereof or a sufficient part thereof as the case may be. If the expenses incurred by the BSCDCL are less than the amount payable to the contractor at his agreement rates, the difference shall not be paid to the contractor; and/or

By a notice in writing to withdraw from the contractor any items or items of work as the Engineer-in-charge may determine in his absolute discretion and get the same executed at the risk and cost of the contractor.

Any excess expenditure incurred or to be incurred by BSCDCL in completing the works or part of the works or the excess loss or damages suffered or may be suffered by BSCDCL as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to BSCDCL in law be recovered from any moneys due to the contractor on any account, and if such moneys are not sufficient the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor shall fail to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors unused materials, constructional plant, implements, temporary buildings, etc. and apply the proceeds of sale thereof towards the satisfaction of any sums due from the contractor under the contract and if thereafter there be any balance outstanding from the contractor, it shall be recovered in accordance with the provisions of the contract and law.

Any sums in excess of the amounts due to BSCDCL and unsold materials, constructional plant etc. shall be returned to the contractor, provided always that if cost or anticipated cost of completion by BSCDCL of the works or part of the works is less than the amount which the contractor would have been paid had he completed the works or part of the works, such benefit shall not accrue to the contractor.

In the event of anyone or more of the above courses being adopted by the Engineer-in-Charge the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the 40

work or the performance of the contract. And in case action is taken under any of the provision aforesaid the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified. Provided further that if any of the recoveries to be made, while taking action as above, are in excess of the security deposit forfeited, these shall be Limited to the amount by which the excess cost incurred by the BSCDCL exceeds the security deposit so forfeited.

CONTRACTOR LIABLE TO PAY COMPENSATION EVEN IF ACTION NOT TAKEN UNDER CLAUSE OF AGREEMENT

In any case in which any of the powers conferred upon the Engineer-in-Charge by relevant clause thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under any clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final and binding on the contractor and/or direct the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

CARRYING OUT PART WORK AT RISK & COST OF CONTRACTOR

If contractor:

At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or

Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge;

or

Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.

The Engineer-in-Charge without invoking action under given clause of contract may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to BSCDCL, by a notice in writing to take the part work/part

incomplete work of any item(s) out of his hands and shall have powers to:

Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or

Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by BSCDCL because of action under this clause shall not exceed 10% of the tendered value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

Any excess expenditure incurred or to be incurred by BSCDCL in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by BSCDCL as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to BSCDCL in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract. In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

SUSPENSION OF WORKS

The contractor shall, on receipt of the order in writing of the Engineer-in-charge, suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-charge may consider necessary for any of the following reasons:

On account of any default on part of the contractor, or

For proper execution of the works or part thereof for reason other than the default of the contractor, or

For safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-charge.

(b) If the suspension is ordered for reasons (ii) and (iii) in sub-para (a) above.

The contractor shall be entitled to an extension of the time equal to the period of every such suspension plus 25% for completion period. No adjustment in contract price will be allowed for reasons of such suspension.

ii) In the event of the Contractor treating the suspension as an abandonment of the Contract by BSCDCL, he shall have no claim to payment of any compensation on account of any profit or advantage which he may have derived from the execution of the work in full.

TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR

Without prejudice to any of the right or remedies under this contract if the contractor dies, the Engineer in-charge shall have the option of terminating the contract without compensation to the contractor.

TIME ESSENCE OF CONTRACT & EXTENSION FOR DELAY

The time allowed for execution of the Works as specified in the Memorandum (Annexure-I) or the extended time in accordance with these conditions shall be the essence of the contract. The execution of the works shall commence from such time period as mentioned in MEMORANDUM (ANNEXURE – I) or the date on which the Engineer-in-Charge issues written orders to commence the work. If the Contractor commits default in commencing the execution of the work as aforesaid, the BSCDCL shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee absolutely.

Within 10 (Ten) days of Letter of Award, the Contractor shall submit a Time and Progress Chart (CPM/ PERT/ Quantified Bar Chart) and get it approved by the Engineer-in-Charge. The Chart shall be prepared in direct relation to the time stated in the contract documents for completion of items of the works. It shall indicate the forecast (mile-stones) of the dates of commencement and completion of various items, trades, sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time stipulated in the Contract documents and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work exceeds one month (save for special jobs for which a separate program has been agreed upon) complete 1/8th of the whole of work before 1/4th of the whole time allowed in the contract has elapsed, 3/8th of the work before one half of such time has elapsed and 3/4th of the work before 3/4th of such time has elapsed. The physical progress report including photographs shall be submitted by the contractor on the prescribed format & the intervals (not exceeding one month) as decided by the Engineer in Charge. The compensation for delay as per tender document shall be leviable at intermediate stages also, in case the required progress is not achieved to meet the above time deadlines of the completion period and/ or milestones of time and progress chart, provided always that the total amount of Compensation for delay to be paid under this condition shall not exceed 10% of the tendered value of work".

If the work(s) be delayed by:

1. force-majeure or
2. Abnormally bad weather, or
3. Serious loss or damage by fire, or
4. Civil commotion, local commotion of workmen, strike or lockout, affecting any or the Trades employed on the work, or
5. Delay on the part of other contractors or tradesmen engaged by Engineer-in- Charge in Executing work not forming part of the Contract, or
6. Non-availability of stores, which are responsibility of the BSCDCL or,
7. Non-availability or break down of tools and plant to be supplied or supplied by BSCDCL or,
8. Any other cause which, in the absolute discretion of the BSCDCL, is beyond the Contractor's control, then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge within 07 days but shall nevertheless use constantly his best endeavor to Prevent or make good the delay and shall do all that may be reasonably required to the Satisfaction of the Engineer-in-Charge to proceed with the works.

Request for extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay in the prescribed form. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired. In any such case BSCDCL may give a fair and reasonable extension of time for completion of work. Such extension shall be communicated to the Contractor by the Engineer-in-Charge in writing within a reasonable time from the receipt of such request. Non application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the Engineer-in-Charge and the extension of time so given by the Engineer-in-Charge shall be binding on the contractor.

TIME SCHEDULE & PROGRESS

Time allowed for carrying out all the works as entered in the tender shall be as mentioned in the "Memorandum (Annexure-I)" which shall be reckoned from the 10th day from the date on which the letter of Award is issued to the Contractor. Time shall be the essence of the contract and contractor shall ensure the completion of the entire work within the stipulated time of completion.

The contractor shall also furnish within 10 days of date of issue of letter of Award a CPM network/ PERT chart/ Bar Chart for completion of work within stipulated time. This will be duly got approved from BSCDCL. This approved Network/ PERT Chart shall form a part of the agreement. Achievement of milestones as well as total completion has to be within the time period allowed.

Contractor shall mobilize and employ sufficient resources for completion of all the works as indicated in the agreed BAR CHART/PERT Network. No additional payment will be made to the contractor for any multiple shift work or other incentive methods contemplated by him in his work schedule even though the time schedule is approved by the Engineer-in-Charge.

During the currency of the work the contractor is expected to adhere to the time schedule on mile stone and total completion and this adherence will be a part of Contractor's performance under the contract. During the time schedule on mile stone and total completion and this adherence will be a part of Contractor's performance under the contract. During the execution of the work contractor is expected to participate in the review and updating of the Network/BAR CHART undertaken by the BSCDCL. These reviews may be undertaken at the discretion of Engineer-in-charge either as a periodical appraisal measure or when the quantum of work order on the contractor is substantially changed through deviation orders or amendments. The review shall be held at site or any of the offices of BSCDCL/owner /consultant at the sole discretion of BSCDCL. The contractor will adhere to the revised schedule thereafter. The approval to the revised schedule resulting in a completion date beyond the stipulated date of completion shall not automatically amount to a grant of extension of time to the contractor.

Contractor shall submit (as directed by Engineer-in-Charge) progress reports on a computer based program (program and software to be approved by Engineer-in- Charge) highlighting status of various activities and physical completion of work. The contractor shall send completion report with as built drawings to the office of Engineer-in-Charge, of BSCDCL in writing within a period of 30 days of completion of work.

The photographs of the project taken on last day of every month indicating progress of work (in soft copies) shall be attached along with the physical progress reports to be submitted to Engineer-in-charge.

TAXES AND DUTIES

The rates quoted by the bidder will be excluding all taxes, same shall be payable as per applicable rates.

Except as otherwise specifically provided in the contract, the contractor shall be liable and responsible for the payment, of all taxes, such as excise duty, custom duty, sales tax, Value Added Tax including the purchase tax, consignment tax, work contract tax, service tax, entry tax or any other similar tax in the state concerned, turnover tax, toll tax, octroi charges, royalty, labour cess, levy and other tax(es) or duty(ies) which may be specified by local/state/ central government from time to time on all material articles which may be used for this work. The rates quoted by him in the tender in bill of quantities shall be inclusive of all taxes, duties, levies etc.

The imposition of any new and/or increase in the aforesaid taxes, duties levies (including fresh imposition of any other Tax) is imposed by Statute, after the last stipulated date for the receipt of tender including extensions if any and the contractor thereupon necessarily and properly pays such taxes/levies/cess, the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of Engineering-in charge attributable to delay in execution of work within the control of contractor. The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, give a written notice thereof to the Engineering-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

In the event of nonpayment/default in payment of any of the above taxes, BSCDCL reserves the right to with-hold the dues/payments of contractor and make payment to local/state/Central Government authorities or to labourers as may be applicable.

The stamp duty and registration charges, if any, on the contract agreement levied by the Government or any other statutory body, shall be paid by the contractor as applicable in the state of work.

It will be incumbent upon the Contractor to obtain a registration certificate as a dealer under the Local Sales Tax Act / VAT and the Central Sales Tax Act and necessary evidence to this effect shall be furnished by the Contractor to BSCDCL.

In the event of decrease / relaxation and / or waiver of any of the existing / prevailing tax(es), duties, levies, cess by Central / state Govt. Or any other statutory body(ies), after the last stipulated date for the receipt of tender including extension (if any), and the contractor thereupon has been paid or has raised claims of such tax(es), duties, levies, cess; such sums shall be recovered / deducted (from claims raised but which has not been paid) effective from the date as reckoned in the relevant statutory order / law / ordnance etc. The contractor, shall, within a period of 30 days of any such waiver/relaxation/decrease in tax(es), duties, levies, cess, give a written notice thereof to Engineer-in-charge stating the statutory change with Documentary proof thereto. Provided always that Engineer-in-charge shall have full powers to effect recovery/deduction on account of any such statutory change even if contractor has not intimated in the event when any such statutory action comes to his notice.

INCOME TAX DEDUCTION (TDS)

Income tax deductions shall be made from all payments made to the contractor including advances against work done, as per the rules and regulations in force, in accordance with the Income Tax act prevailing from time to time.

VALUE ADDED TAX (VAT) / SALES TAX

The contractor shall comply with all the provisions of VAT / SALES TAX Act applicable in the respective state. The contractor shall be registered with the applicable sales tax authority of the state / Union territory as applicable for the works. The contractor shall be responsible for submission of appropriate sales tax / VAT to the authority and BSCDCL shall all times be kept indemnified for non fulfillment of the sales tax / VAT obligations by the contractor including but not limited to registration, submission of tax & its returns at appropriate times and any

other statutory obligation(s) in this regard as applicable. However, contractor is bound to submit the proof of deposit of Sales Tax / VAT to the BSCDCL failing which the Engineer-in-charge shall have, without prejudice to any other rights or remedy available under any of the clauses of contract, full powers to deduct / recover the sum(s) he deems fit from any amount due / payable or any security deposit available at his disposal.

The rates quoted by the bidder will be excluding all taxes same shall be payable as per applicable rates.

SERVICE TAX

The contractor must have registration No. with Service Tax Authorities and will provide copy of Registration to BSCDCL before release of any payment by the Corporation. The contractor will submit regular Invoice / Bill fulfilling all conditions of Service Tax Rules 1994 amended from time to time and shall produce proof of deposit of Service Tax to the Corporation as and when demanded failing which the Engineer-in-charge shall have without prejudice to any other rights or remedy available under any of the clauses of contract, full powers to deduct / recover the sum(s) he deems fit from any amount due / payable or any security deposit available at his disposal.

ROYALTY ON MATERIALS:

The contractor shall deposit royalty and obtain necessary permit for supply of other materials etc. from the local authorities and quoted rates shall be inclusive of royalty.

The contractor shall be deemed to have inspected the site, its surrounding and acquainted itself with the nature of the ground, accessibility of the site and full extent and nature of all operations necessary for the full and proper execution of the contract, space for storage of materials, constructional plant, temporary works, restrictions on the plying of heavy vehicles in area, supply and use of labor materials, plant, equipment and laws, rules and regulations, if any, imposed by the local authorities.

The rates and prices to be tendered in the bill of quantities are for completed and finished items of works and complete in all respects. It will be deemed to include all constructional plant, labor, supervision materials, transport, all temporary works, erection, maintenance, contractor's profit and establishment/overheads, together with preparation of designs & drawings pertaining to casting yard, shop drawing, fabrication drawing (if required), staging form work, stacking yard, etc. all general risk, all taxes, royalty, duties, cess, octroi and other levies, insurance liabilities and obligations set out or implied in the tender documents and contract.

If any temporary/ permanent structure is encountered or safety of such structure in the vicinity is endangered due to execution of the project, the contractor has to protect the structures by any means as per direction of Engineer-in-Charge. If any damage is caused to any temporary or permanent structure(s) in the vicinity due to execution of the project, the contractor has to make good the same by any means as per direction of Engineer-in-Charge. The contractor should inspect the site of work from this point of view. The cost to be incurred in this regard shall be deemed to be included in his quoted rates of BOQ items and the contractor shall not be entitled for any extra payment in this regard.

INSURANCE OF WORKS ETC

Contractor is required to take contractor's all risk policy or erection all risk policy (as the case may be) from an approved insurance company in the joint name with BSCDCL and bear all costs towards the same for the full period of execution of works including the defect liability period for the full amount of contract against all loss or damage from whatever cause arising other than excepted risks for which he is responsible under the terms of the contract and in such manner that the BSCDCL and the contractor are covered during the period of construction of works and/or also covered during the period of defect liability for loss or damage

The work and the temporary works to the full value of such works.

The materials, constructional plant, centering, shuttering and scaffolding materials and other things brought to the site for their full value.

Whenever required by BSCDCL, the contractor shall produce the policy or the policies of insurance and the receipts for payment of the current premium.

INSURANCE UNDER WORKMEN COMPENSATION ACT

Contractor is required to take insurance cover under the workman Compensation Act, 1923 amended from time to time from an approved insurance company and pay premium charges thereof. wherever required by BSCDCL the contractor shall produce the policy or the policies of Insurance and the receipt of payment of the current premiums.

THIRD PARTY INSURANCE

Contractor is required to take third party insurance cover for an amount of 5%(five percent) of contract value from an approved insurance company for insurance against any damage, injury or loss which may occur to any person or property Including that of BSCDCL / owner / client, arising out of the execution of the works or temporary works. Wherever required by BSCDCL the contractor shall produce the policy or the policies of Insurance and the receipt of payment of the current Premiums.

In case of failure of the contractor to obtain contractors all risk policy, insurance under workman compensation act and third party insurance as described above within one month from the date of commencement of work, running account payments of the contractor shall be withheld till such time the aforesaid insurance covers are obtained by the contractor.

If the Contractor could not effect a comprehensive insurance cover against risks which he may be required to effect under the terms of the contract, then he shall give his attention to get the best insurance cover available and even in case of effecting a wider insurance cover than the one which the subsidiary of the General

Insurance Company could offer, such an insurance is ought to be done after the BSCDCL's approval, by or through the subsidiary of the General Insurance Company.

The contractor shall at all times indemnify BSCDCL and Owner against all claims, damages or compensation under the provision of Payment of wages act-1936, Minimum Wages Act-1948, Employer's liability Act-1938, the workmen's compensation Act-1947, Industrial Disputes Act-1947 and Maternity Benefit Act-1961 or any modifications thereof or any other law in force or as consequence of any accident or injury to any workman or other persons in or about the works, whether in the employment of the contractor or not, against all costs, charges and expenses of any suit, action or proceedings arising out of such incident or injury and against all sum or sums which may with the consent of the contractor be paid to compromise or compound any such claim. Without limiting his obligations and liabilities as above provided, the contractor shall insure against all claims, damages or compensation payable under the Workmen's Compensation Act 1923 or any modification thereof or any other law relating thereto.

PAYMENTS

All running payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed and/or accepted by BSCDCL and shall not preclude the recovery for bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the Contract, or any part thereof, in this respect, or the accruing of any claim, nor shall it conclude, determine or affect in any way the powers of the BSCDCL under these conditions or any of them as to the final settlement and adjustments of the accounts or otherwise, or in any other way vary/ affect the contract. The final bill shall be submitted by the contractor within three months of the completion of work, otherwise BSCDCL's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on contractor. Each Running Bills should be accompanied by two sets of at-least 20 (twenty) photographs as per direction of Engineer-in-charge taken from various points depicting status of work as on Report/ Bill date and Monthly Progress Report for the concerned month in the pro-forma to be given/ approved by Engineer-in-Charge. Intermittent progress Photographs as and when required shall also be provided by the Contractor at his own cost as per direction of Engineer-in-Charge. No payment of running account bill shall be released unless it is accompanied by photographs and Monthly Progress Report as above.

It is clearly agreed and understood by the Contractor that notwithstanding anything to the contrary that may be stated in the agreement between BSCDCL and the contractor; the contractor shall become entitled to payment only after BSCDCL has received the corresponding payment(s) from the client/ Owner for the work done by the contractor. Any delay in the release of payment by the client/ Owner to BSCDCL leading to a delay in the release the corresponding payment by BSCDCL to the contractor shall not entitle the Contractor to any compensation/ interest from BSCDCL.

All payments shall be released by way of e-transfer through RTGS/NEFT in India directly at their Bank account by BSCDCL.

MEASUREMENTS OF WORKS

Engineer-in-charge shall, except as otherwise provided, ascertain and determine by measurement, the value of work done in accordance with the contract.

Except where any general or detailed description of the work expressly shows to the contrary, measurement shall be taken in accordance with the

Procedure set forth in the UADD/MPPW D/CPWD Specification. In the case of items which are not covered by specifications, mode of measurement as specified in the Technical Specifications of the contract and if for any item no such technical specification is available, then a relevant standard method of measurement issued by the Bureau of Indian Standard shall be followed.

Provided further that, In case of Cancellation/Determination of Contract in Full or in Part in accordance with clause given in tender document (and its sub-clauses), following methodology shall be adopted in respect of measurements in addition to what has been mentioned in foregoing:-

All measurements and levels shall be taken jointly by the Engineer-in-Charge or his authorized representative and by the contractor or his authorized representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.

If for any reason the contractor or his authorized representative is not available and the work of recording measurements is suspended by the Engineer-in-Charge or his representative, the Engineer-in-Charge and BSCDCL shall not entertain any claim from contractor for any loss or damages on this account. If the contractor or his authorized representative does not remain present at the time of such measurements after the contractor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor. The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels.

COMPUTERISED MEASUREMENT BOOKS

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract. All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book as per the format of BSCDCL so that a complete record is obtained of all the items of works performed under the contract. All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative.

After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance.

Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to BSCDCL a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in-Charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.

The final, fair, computerized measurement book given by the contractor, duly bound, with its pages numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly numbered and bound, after getting the earlier MB cancelled by the BSCDCL. The contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the BSCDCL.

The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages numbered along with two spare copies of the "bill.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements /levels by the Engineer-in-Charge or his representative.

The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his authorized representative in charge of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the BSCDCL to check the measurements recorded by contractor and all provisions stipulated herein above or anywhere in the tender document shall be applicable to such checking of measurements or levels.

It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

WITHHOLDING AND LIEN IN RESPECT OF SUMS DUE FROM CONTRACTOR

Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, BSCDCL shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any, deposited by the contractor and for the purpose aforesaid, BSCDCL shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, BSCDCL shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract pending finalization of adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or BSCDCL will be kept withheld or retained as such by the Engineer-in-Charge or BSCDCL till the claim arising out of or under the contract is

determined by the competent court and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the BSCDCL shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company, as the case may whether in his individual capacity or otherwise. BSCDCL shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc, to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for BSCDCL to recover the same from him in the manner prescribed in tender document of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by BSCDCL to the contractor, without any interest thereon whatsoever.

LIEN IN RESPECT OF CLAIMS IN OTHER CONTRACTS

Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or by BSCDCL against any claim of the Engineer-in-Charge or BSCDCL in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-Charge or the BSCDCL. It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the BSCDCL will be kept withheld or retained as such by the Engineer-in-Charge

or the BSCDCL or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the competent court, as the case may be, and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

WORK TO BE EXECUTED IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ORDERS ETC.

All items of work in the bill of quantities/ schedule of quantities shall be carried out as per the UADD/MPPW D/CPW D/ BSCDCL specifications, drawings and instructions of the Engineer-in-Charge of BSCDCL and the rates shall include for supply of required materials including proper storage, consumables, skilled & unskilled labour, supervision and tools, tackles, plant & machinery complete as called for in the detailed specifications and conditions of the contract. Latest updated UADD/MPPW D/CPWD specification shall be followed for execution of work.

The contractor shall execute the whole and every part of the work in the most substantial and workman like manner both as regards materials and otherwise in every respect in strict accordance with the specifications.

The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work assigned by the Engineer-in- Charge.

The contractor shall comply with the provisions of the contract and execute the works with care and diligence and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

MATERIALS TO BE PROVIDED BY THE CONTRACTOR

The contractor shall, at his own expense, provide all materials, required including Cement & Steel for the works. The contractor shall at his own expense and without delay; supply to the Engineer-in-Charge samples of materials to be used on the work and shall get the same approved in advance. All such materials to be Provided by the Contractor shall

be in conformity with the specifications laid down or referred to in the contract.

The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply.

The contractor shall at his risk and cost, submit the samples of materials to be tested or analyzed and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in-Charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance and cost in obtaining the right and visit to such access. The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge shall also have full power to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may require such removal and substitution shall be borne by the contractor.

MATERIALS AND SAMPLES

The materials/products used on the works shall be one of the approved make/ brands out of list of manufacturers / brands /makes given in the tender documents. The contractor shall submit samples/ specimens out of approved makes of materials/ products to the Engineer-in-Charge for prior approval. In exceptional circumstances Engineer-in-Charge may allow alternate equivalent makes/brands of products/ materials at his sole discretion. The final choice of brand / make shall remain with the Engineer- in-Charge, whose decision in this matter shall be final and binding and nothing extra on this account shall be payable to the Contractor. In case single brand/ make are mentioned, other equivalent makes/ brands may be considered by the Engineer-in-Charge. In case of variance in UADD/MPPWD/CPWD/IS/BIS Specifications from approved products/makes specification, the specification of approved product/make shall prevail for which nothing shall be paid extra to the Contractor. In case no make or brand of any materials, articles, fittings and accessories etc. is specified, the same shall comply with the relevant Indian Standard Specifications and shall bear the ISI/BIS mark. The Engineer of BSCDCL and the owner shall have the discretion to check quality of materials and equipments to be incorporated in the work, at source of supply or site of work and even after incorporation in the work. They shall also have the discretion to check the workmanship of various items of work to be executed in this work. The contractor shall provide the necessary facilities and assistance for this purpose.

The above provisions shall not absolve the contractor from the quality of final product and in getting the material and workmanship quality checked and approved from the Engineer-in-Charge of BSCDCL.

The contractor shall well in advance, produce samples of all materials, articles, fittings,

accessories etc. that he proposes to use and get them approved in writing by BSCDCL. The materials articles etc. as approved shall be LABELLED as such and shall be signed by BSCDCL and the Contractor's representative.

The approved samples shall be kept in the custody of the Engineer-in- Charge of BSCDCL till completion of the work. Thereafter the samples except those destroyed during testing shall be returned to the contractor No payment will be made to the contractor for the samples or samples destroyed in testing.

The brands of all materials, articles fittings etc. approved together with the names of the manufacturers and firms from which supplies have been arranged shall be recorded in the site order book.

The contractor shall set up and maintain at his cost, a field testing laboratory for all day to day tests at his own cost to the satisfaction of the Engineer-in-Charge. This field testing laboratory shall be provided with equipment and facilities to carry out all mandatory field tests as per BSCDCL/UADD/MPPWD/CPW D (as the case may be) specifications. The laboratory building shall be constructed and installed with the appropriate facilities, Temperature and humidity controls shall be available wherever necessary during testing of samples. All equipments shall be provided by the Contractor so as to be compatible with the testing requirements specified. The Contractor shall maintain all the equipment's in good working condition for the duration of the contract. The Contractor shall provide approved qualified personnel to run the laboratory for the duration of the Contract. The number of staff and equipment available must at all times be sufficient to keep pace with the sampling and testing programed as required by the Engineer-in-charge. The Contractor shall fully service the site laboratory and shall supply everything necessary for its proper functioning, including all transport needed to move equipment and samples to and from sampling points on the site, etc. The Contractor shall re-calibrate all measuring devices whenever so required by the Engineer-in-charge and shall submit the results of such calibration without delay. All field test shall be carried out in the presence of BSCDCL's representative. All costs towards samples, materials, collection, transport, manpower, testing etc. shall be borne by the Contractor and are deemed to be included in the rates quoted by him in the bill of quantities.

The contractor(s) shall display the calibration certificate of each equipment at the location of equipment & shall get recalibrated at least one week before its expiry date.

MATERIALS PROCURED WITH THE ASSISTANCE OF BSCDCL

If any material for the execution of this contract is procured with the assistance of BSCDCL either by issue from its stores or purchase made under orders or permits or licenses obtained by BSCDCL, the contractor shall hold and use the said materials economically and solely for the purpose of this contract and shall not dispose them without the permission of Engineer-in-charge. The contractor, if required by the BSCDCL, shall return all such surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination on whatsoever reason, on being paid or credited such price as the Engineer-in-charge shall determine having due regard to the

conditions of materials. The price allowed to the contractor, however, shall not exceed the amount charged to him excluding the element of storage charges which shall be 10% of the cost charged to contractor. The decision of the Engineer-in-charge shall be final and conclusive.

Contractor(s) has / have to deploy security personnel for safeguarding of materials procured at site.

CONTRACTOR TO SUPPLY TOOLS & PLANTS

The contractor shall provide at his own cost all materials, machinery, tools & plants as require for completion of work. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement or examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.

MOBILIZATION OF MEN, MATERIALS AND MACHINERY:

All expenses towards mobilization at site and de-mobilization including bringing in equipment, work force, materials, dismantling the equipment's, clearing the site etc. shall be deemed to be included in prices quoted and no separate payment on account of such expenses shall be entertained.

It shall be entirely the Contractor's responsibility to provide, operate and maintain all necessary construction equipment's, scaffoldings and safety, gadget, lifting tackles, tools and appliances to perform the work in a workman like and efficient manner and complete all jobs as per the specifications and within the schedule time of completion of work. Further, contractor shall also be responsible for obtaining temporary electric and water connection for all purposes. The contractor shall also make standby arrangement for water & electricity to ensure un-interrupted supply.

It shall be the responsibility of the contractor to obtain the approval for any revision and/or modification desired by him from BSCDCL before implementation.

The procurement and supply in sequence and at the appropriate time of all materials and consumable shall be entirely the contractor's responsibilities and his rates for execution of work shall be inclusive of supply of all these items.

It is mandatory for the contractor to provide safety equipment's and gadgets to his all workers, supervisory and Technical staff engaged in the execution of the work while working. The minimum requirement (but not limited to) shall be gum boots, safety helmets, Rubber hand gloves, face masks, safety nets, safety belts, goggles etc. as per work requirements. Sufficient nos. of these equipment's and gadgets shall also be provided to BSCDCL by the contractor at his own cost for use of BSCDCL Officials and/ or workforce while working/supervision of work at site. No staff/ worker shall be allowed to enter the site without these equipment's/ gadgets.

The cost of the above equipment's/ gadgets are deemed to be included in the rates quoted by the contractor for the items & works as per Bill of Quantities and contractor shall not be entitled for any extra payment in these regard. The above norm is to be strictly complied with at site. In case the contractor is found to be deficient in providing Safety Equipment's/ Gadgets in the opinion of Engineer-in-charge, the Engineer-in-charge at his option can procure the same at the risk & cost of contractor and provide the same for the use of worksite and shall make the recoveries from the bills of the contractor for the same. The contractor shall abide by all rules & regulations pertaining to Health, Safety and Environment.

All designs, drawings, bill of quantities, etc., except Bar Bending Schedule, Shop & Fabrication drawings, for all works shall be supplied to the contractor for their scope of work all buildings services and development works by BSCDCL in phased manner as the works progress. However it shall be the duty and responsibility of the contractor to bring to the notice of the BSCDCL in writing as to any variation, discrepancy or any other changes required and to obtain revised drawings and designs and / or approval of the BSCDCL in writing for the same.

One copy of contract documents including drawings furnished to the contractor shall be kept at the site and the same shall at all reasonable times be available for inspection.

All materials, construction plants and equipments etc. Once brought by the contractor within the project area, will not be allowed to be removed from the premises without the written permission of the Engineer-in-charge. Similarly all enabling works built by the contractor for the main construction undertaken by him, shall not be dismantled and removed without the written authority of the BSCDCL.

Contractor shall have to prepare the Bar Bending Schedule, shop and fabrication drawings free of cost, if required for any of the items of work.

Five copies of these drawings each including for revision will be submitted to BSCDCL for approval. Before executing the item, shop drawings and bar bending schedule should be approved by BSCDCL.

BSCDCL shall supply Work Force in the various categories to assist the contractor in execution of the works on recoverable basis as per provision mentioned elsewhere in the contract.

All contractors' plant, machinery and equipment shall be kept in perfect condition during currency of the contract.

QUALITY ASSURANCE PROGRAMME

To ensure that the services under the scope of this contract are in accordance with the specifications, the Contractor shall adopt Quality Assurance Program to control such activities at the necessary points:

The contractor shall prepare and finalize such Quality Assurance Programme within 15 days from date of issue Letter of Award. BSCDCL shall also carryout quality audit and quality surveillance of systems and procedures of Contractor's quality control activities. A Quality Assurance Programme of Contractor shall generally cover the following:

His organization structure for the management and implementation of the proposed Quality Assurance Program.

Documentation control system.

a) The procedure for purpose of materials and source inspection.

System for site controls including process controls.

Control of non-conforming items and systems for corrective actions. Inspection and test procedure for site activities.

System for indication and appraisal of inspection status.

System for maintenance of records.

System for handling, storage and delivery.

A quality plan detailing out quality practices and procedures, relevant standards and acceptance levels for all types of work under the scope of this contract.

All the quality reports shall be submitted by the Contractors in the formats appended hereto. Checklist enclosed here in this document shall be followed while carrying out Construction activities (items). If any item is not covered by the Checklist/ Formats appended hereto, the Format for the same may be developed and submitted to Engineer-in-Charge for approval and the same shall be adopted. These filled in formats shall be prepared in two copies and duly signed by representatives of contractor and BSCDCL. All the costs associate with Printing of Formats and testing of materials required as per technical specifications or by Engineer-in-charge shall be included in the Contractor's quoted rates in the Schedule/ Bill of quantities.

CONTRACT COORDINATION PROCEDURES, COORDINATION MEETINGS AND PROGRESS REPORTING

The Contractor shall prepare and finalize in consultation with BSCDCL, a detailed contract coordination procedure within 15 days from the date of issue of Letter of Award for the purpose of execution of the Contract. The Contractor shall have to attend all the meetings

at any place in India at his own cost with BSCDCL, Owners/ Clients or Consultants of BSCDCL/ Owner/ Client during the currency of the Contract, as and when required and fully cooperate with such personal and agencies involved during these discussions. The Contractor shall not deal in any way directly with the Clients/ Owners or Consultants of BSCDCL/Owner/ Clients and any dealing/correspondence if required at any time with Clients/ Owners/ Consultants shall be through BSCDCL only. During the execution of the work, Contractor shall submit at his own cost a detailed Monthly progress & programme report to the Engineer-in-charge of BSCDCL by 5th of every month. The format of monthly progress & programme report shall be as approved by Engineer-in-Charge of BSCDCL.

COMPLETION CERTIFICATE AND COMPLETION PLANS

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or

(b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof less actual cost incurred on removal of materials / debris / malba etc.

The contractor shall submit completion plan as required vide General Specifications for Electrical works as applicable within thirty days of the completion of the work. In case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs.5,00,000 (Rs. Five Lakhs only) as may be fixed by the Engineer-in-charge concerned and in this respect the decision of the Engineer-in-charge shall be final and binding on the contractor.

PROHIBITION OF UNAUTHORISED CONSTRUCTION & OCCUPATION

No unauthorized buildings, construction of structures should be put up by the contractor anywhere on the project site, neither any building built by him shall be occupied in un-authorized manner by him or his staff.

It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody in un-authorized manner during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy of compensation upto

5% of tendered value of work may be imposed by the Engineer-in-Charge whose decision shall be final both with regard to the justification and quantum and shall be binding on the contractor.

However, the Engineer-in-Charge, through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.

FORECLOSURE OF CONTRACT BY BSCDCL/OWNER

If at any time after the commencement of the work the BSCDCL shall for any reason whatsoever is required to abandon the work or is not require the whole work thereof as specified in the tender to be carried out, the Engineer-in-Charge shall give notice in writing of the fact to the contractor, who shall have no claim to any payment of compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full, but which he did not derive in consequence of the foreclosure of the whole or part of the works.

DEFECTS LIABILITY PERIOD

The contractor shall be responsible for the rectification of defects in the works for a period twelve months from the date of taking over of the works by the BSCDCL or clients whichever is later. Any defects discovered and brought to the notice of the contractor forthwith shall be attended to and rectified by him at his own cost and expense. In case the contractor fails to carry out these rectifications, the same may without prejudice to any other right or remedy available, be got rectified by BSCDCL at the cost and expense of the contractor

RESTRICTION ON SUBLETTING

The contractor shall not sublet or assign the whole or part of the works except where otherwise provided, by the contract. The provision of labour on piece work basis shall not be deemed to be a subletting under this clause.

The contractor may entrust specialist items of works like MEP services, HVAC, Lifts, Building Management System, Water Proofing, and Data & Communication networking, interiors, landscaping etc. to the agencies specialized in the specific trade. The contractor shall give the names and details of such firm whom it is going to employ for approval of

BSCDCL. These details shall include the expertise, financial status, technical manpower, equipment, resources and list of works executed and on hand of the specialist agency. Further, prior written approval is required from BSCDCL to deploy such agency / sub-contractor.

FORCE MAJEURE

Any delay in or failure to perform of either party, shall not constitute default so as to give rise to any claim for damages, to the extent such delay or failure to perform is caused by an act of God, or by fire, explosion, flood or other natural catastrophe, governmental legislation, orders or regulation etc. Failure of the client / owner to hand over the entire site and / or release funds for the project, to BSCDCL, shall also constitute force majeure. The time for performance of the obligation by the parties shall be deemed to be extended for a period equal to the duration of the force majeure event. Both parties shall make their best efforts to minimize the delay caused by the force majeure event. If the failure / delay of the client /owner in handing over the entire site and / or in releasing the funds continues even on the expiry of the stipulated date of completion, BSCDCL, may, at the request of the contractor, foreclose the contract without any liability to either party. In the event of such foreclosure, the contractor shall not be entitled to any compensation whatsoever. If prior to such foreclosure the contractor has brought any materials to the site, the Engineer-in- Charge shall always have the option of taking over of all such materials at their purchase price or at the local current rates, whichever is lower.

NO COMPENSATION CLAUSE

The contractor shall have no claim whatsoever for compensation or idle charges against BSCDCL on any ground or for any reason, whatsoever.

DIRECTION FOR WORKS

All works under the contract shall be executed under the direction and subject to approval in all respect of the Engineer-in-Charge of BSCDCL who shall be entitled to direct at whatever point or points and in whatever manner works are to be commenced and executed.

The Engineer-in-Charge and his representative shall communicate or confirm their instructions to the contractor in respect of the execution of work during their site inspection in a 'Works Site Order Book' maintained at the site office of Engineer-in-Charge. The contractor or his authorized representative shall confirm receipt of such instructions by signing against the relevant orders in the book. WORK IN MONSOON AND RAIN

The execution of the work may entail working in the monsoon also. The contractor must maintain labour force as may be required for the job and plan and execute the construction and erection according to the prescribed schedule. No special/ extra rate will be considered for such work in monsoon. The contractors' rate shall be considered inclusive of cost of dewatering due to rains required if any and no extra rate shall be payable on this account. The stipulated period for completion of project includes the monsoon period, holidays & festivals.

WORK ON SUNDAYS, HOLIDAYS AND DURING NIGHT

For carrying out work on Sunday and Holidays or during night, the contractor will approach the Engineer-in-Charge or his representative at least two days in advance and obtain his permission. The Engineer-in-Charge at his discretion can refuse such permission. The contractor shall have no claim on this account whatsoever. If work demand, the contractor shall make arrangements to carry out the work on Sundays, Holidays and in two, three shifts with the approval of Engineer-in-Charge at no extra cost to BSCDCL.

WATER AND ELECTRICITY

The contractor shall make his own arrangement for Water & Electrical power for construction and other purposes at his own cost and pay requisite electricity and water charges. The contractor shall also make standby arrangement for water & electricity to ensure un-interrupted supply.

LAND FOR LABOUR HUTS/ SITE OFFICE AND STORAGE ACCOMMODATION

The contractor shall arrange the land for temporary office, storage accommodation and labour huts at his own cost and get the clearance of local authorities for setting up/construction of labour camp and same is deemed to be included in the rates quoted by the contractor for the works. The contractor shall ensure that the area of labour huts is kept clean and sanitary conditions are maintained as laid down by the local authorities controlling the area. The labour huts shall be so placed that it does not hinder the progress of work or access to the worksite. The vacant possession of the land used, for the purpose shall be given back by contractor after completion of the work.

The security deposit of the contractor shall be released only after contractor demolishes all structures including foundations and gives back clear vacant possession of this land. In the event the contractor has to shift his labour campus at any time during execution of the work on the instructions of local authorities or as per the requirement of the work progress or as may be required by BSCDCL, he shall comply with such instructions at his cost and risk and no claim whatsoever shall be entertained on this account.

WATCH, WARD AND LIGHTING OF WORK PLACE

The contractor shall at his own cost take all precautions to ensure safety of life and property by providing necessary barriers, OBSTRUCTIONS, lights, watchmen etc. during the progress of work as directed by Engineer-in-charge.

SCHEDULE OF QUANTITIES / BILL OF QUANTITIES

The quantities shown against the various items of work are only approximate quantities which may vary as per the actual requirement at site. No item which is not covered in the bill of quantities shall be executed by the Contractor without the approval of the BSCDCL. In case any Extra/Substituted item is carried out without specific-approval, the same will not be paid.

WATER PROOF TREATMENT

The water proof treatment shall be of type and specifications as given in the schedule of quantities. The water-proofing of basement, roofs, water retaining areas shall be and remain fully effective for a period of not less than 10(Ten) years to be reckoned from the date of expiring of the Defect Liability period, prescribed in the contract. At any time during the said guarantee period if BSCDCL finds any defects in the said treatment or any evidence of re-infestation, dampness, leakage in any part of buildings or structure and notifies the contractor of the same, the contractor shall be liable to rectify the defect or give re-treatment and shall commence the work or such rectification or re-treatment within seven days from the date of issue of such letter to him. If the contractor fails to commence such work within the stipulated period, the BSCDCL may get the same done by another agency at the Contractor's cost and risk and the decision of the Engineer-in-Charge of BSCDCL for the cost payable by the contractor shall be final and binding upon him.

Re-treatment if required shall be attended to and carried out by the Contractor within seven days of the notice from Engineer-in-Charge of BSCDCL.

The BSCDCL reserves the right to get the quality of treatment checked in accordance with recognized test methods and in case it is found that the chemicals with the required concentration and rate of application have not been applied, or the water proofing treatment is not done as per specifications, the contractor will be required to do the re-treatment in accordance with the required concentration & specifications at no extra cost failing which no payment for such work will be made. The extent of work thus rejected shall be determined by BSCDCL.

Water proofing shall be got done through approved / specialized agencies only with prior approval of Engineer-in-Charge.

The contractor shall make such arrangement as may be necessary to safe guard the workers and residents of the building against any poisonous effect of the chemicals used during the execution of the work.

During the execution of work, if any damage shall occur to the treatment already done, either due to rain or any other circumstances, the same shall be rectified and made good to the entire satisfaction of Engineer-In-Charge by the contractor at his cost and risk.

The contractor shall make his own arrangement for all equipment's required for the execution of the job. The contractor whose tender is accepted shall execute Guarantee Bond in the prescribed form as appended for guaranteeing the water proofing treatment.

INDIAN STANDARDS

Wherever any reference is made to any IS in any particular specifications, drawings or bill of quantities, it means the Indian Standards editions with up to date amendments issued till

last date of receipt of tender documents.

TESTS AND INSPECTION

The contractor shall carry out the various mandatory tests as per specifications and the technical documents that will be furnished to him during the performance of the work. All the tests on materials, as recommended by UADD/MPPW D/CPW D, BSCDCL and relevant Indian Standard Codes or other standard specifications (including all amendments current at the last date of submission of tender documents) shall be got carried out by the contractor at the field testing laboratory or any other recognized institution/ laboratory, at the direction of the BSCDCL. All testing charges, expenses etc. shall be borne by the contractor. All the tests, either on the field or outside laboratories concerning the execution of the work and supply of materials shall be got carried out by the contractor or BSCDCL at the cost of the Contractor.

WORKS TO BE OPEN TO INSPECTION

All works executed or under the course of execution in pursuance of this contract shall at all times be open to inspection and supervision of the BSCDCL. The work during its progress or after its completion may also be inspected, by Chief Technical Examiner of Government of India (CTE) and/or an inspecting authority of State Government of State in which work is executed and/or by third party checks by owner/clients. The compliance of observations/improvements as suggested by the inspecting officers of BSCDCL/CTE/ State authorities/ Owners shall be obligatory on the part of the Contractor at the cost of contractor.

BORROW AREAS

The contractor shall make his own arrangements for borrow pits and borrow disposal areas including their approaches and space for movement of man, machinery, other equipment's as required for carrying out the works. The contractor shall be responsible for taking all safety measures, getting approval, making payment of royalties, charges etc. and nothing extra shall be paid to the contractor on this account and unit rates quoted by the contractor for various items of bill of quantities shall deemed to include the same.

CARE OF WORKS

From the commencement to the completion of works and handing over, the contractor shall take full responsibility for care thereof all the works and in case of any damage/loss to the works or to any part thereof or to any temporary works due to lack of precautions or due to negligence on part of Contractor, the same shall be made good by the Contractor.

CO-ORDINATION WITH OTHER AGENCIES

Work shall be carried out in such a manner that the work of other Agencies operating at the site is not hampered due to any action of the Contractor. Proper Co-ordination with other Agencies will be Contractor's responsibility. In case of any dispute, the decision of BSCDCL shall be final and binding on the contractor. No claim whatsoever shall be admissible on this account.

SETTING OUT OF THE WORKS

The contractor shall be responsible for the true and proper setting out of the works and for the correctness of the position, levels, dimensions and alignment of all parts of the works. If at any time during the progress of works, shall any error appear or arise in the position, levels, dimensions or alignment of any part of the works, the contractor shall at his own expenses rectify such error to the satisfaction of Engineer-in-charge. The checking of any setting out or of any line or level by the engineers of BSCDCL shall not in any way relieve the contractor of his responsibility for the correctness.

NOTICE BEFORE COVERING UP THE WORK

The contractor shall give not less than seven day's notice before covering up or otherwise placing beyond the reach of measurement any work, to the Engineer-in-charge in order that the same may be inspected and measured. If any work is covered up or placed beyond the reach of inspection/measurement without such notice or his consent being obtained the same shall be uncovered at the contractor expenses and he shall have to make it good at his own expenses.

SITE CLEARANCE

The contractor shall ensure that the working site is kept clean and free of obstructions for easy access to job site and also from safety point of view. Before handing over the work to the BSCDCL the contractor shall remove all temporary structures like the site offices, cement go-down, stores, labour hutments etc., scaffolding rubbish, debris etc. left over materials tools and plants, equipments etc., clean the site to the entire satisfaction of the Engineer-in-charge. If this is not done the same will be got done by BSCDCL at his risk and cost.

The contractor shall clean all floors, remove cement/ lime/ paint drops and deposits, clean joinery, glass panes etc., touching all painter's works and carry out all other necessary items of works to make the premises clean and tidy before handing over the building, and the rates quoted by the contractor shall be deemed to have included the same.

SET-OFF OF CONTRACTOR'S LIABILITIES

BSCDCL shall have the right to deduct or set off the expenses incurred or likely to be incurred by it in rectifying the defects and/or any claim under this agreement against the Contractor from any or against any amount payable to the contractor under this agreement including security deposit and proceeds of performance guarantee.

POSSESSION PRIOR TO COMPLETION

BSCDCL shall have the right to take possession of or use any completed or partially completed work or part of the work. Such possession or use shall not be deemed to be any

acceptance of any work not completed in accordance with the contract agreement. If such prior possession or use by BSCDCL delays the progress of work an equitable adjustment in the time of completion will be made and the contract agreement shall be deemed to be modified accordingly. The decision of BSCDCL in such case shall be final binding and conclusive

When the whole of the works or the items or the groups of items of work have been completed the contractor will give a notice to that effect to the Engineer in writing. The Engineer shall within 7 days of the date of receipt of such notice inspect the works and give instructions in writing to the contractor specifying the balance items of work which are required to be done by the contractor and shall also notify the contractor of any defect in the works affecting completion.

The contractor shall during the course of execution prepare and keep updated a complete set of 'as built' drawings to show each and every change from the contract drawings, changes recorded shall be countersigned by the Engineer-in-Charge and the contractor. Four copies of 'as built' drawings shall be supplied to BSCDCL by the contractor within 30 days of the completion. All costs incurred in this respect shall be borne by the contractor.

EMPLOYMENT OF PERSONNEL

The contractor shall employ only Indian Nationals as his representatives, servants and workmen after verifying their antecedents and loyalty. He shall ensure that no personnel of doubtful antecedents and any other nationality in any way is associated with the works.

In case BSCDCL observed misconduct negligence or incompetence etc. on the part of any representative, agent, servant and workmen or employees etc. of the contractor, the BSCDCL shall have full power and without giving any reason to the contractor, instruct the contractor to remove such engineer / staff / worker from site and provide suitable replacements. The decision of the Engineer-in-charge shall be final and binding on the contractor. The contractor shall not be allowed any compensation on this account.

TECHNICAL STAFF FOR WORK

The contractor shall employ at his cost the adequate number of technical staff during the execution of this work depending upon the requirement of work. For this purpose the numbers to be deployed, their qualification, experience as decided by BSCDCL shall be final and binding on contractor. The contractor shall not be entitled for any extra payment in this regard. The technical staff should be available at site, whenever required by BSCDCL to take instructions.

Within 15 days of Letter of Award, the contractor shall submit a site organizational chart and resume including details of experience of the Project-in-Charge and other staff proposed to be deputed by him and the technical team shall be deputed by them on the Project after getting approval from Engineer-in-Charge. If desired by the contractor at later date, the Project-in-Charge and other staff whose resume is approved by BSCDCL can be replaced with prior written approval of BSCDCL and replacement shall be with equivalent or superior candidate only. Decision of Engineer-in-Charge shall be final and binding on the contractor.

Even after approving the site organizational chart, the Engineer-in-Charge due to technical reasons and exigency of work can direct the contractor to depute such additional staff as in view of Engineer-in-Charge is necessary and having qualification and experience as approved by the Engineer-in-Charge. The removal of such additional staff from the site shall only be with the prior written approval of Engineer-in-Charge. The contractor shall not be paid anything extra whatsoever on account of deployment of additional staff and decision of the Engineer-in-Charge shall be final and binding on the contractor.

In case the contractor fails to employ the staff as aforesaid he shall be liable to pay a reasonable amount not exceeding a sum of **Rs. 50,000** (Rupees Fifty Thousand only) for each month of default in the case of each person. The decision of the Engineer-in-charge as to number of Technical Staff to be adequate for the project and the period for which the desired strength of technical staff was not employed by the contractor and as to the reasonableness of the amount to be deducted on this account shall be final and binding on the contractor as to the amount and the contractor's liability to pay the said amount.

VALUABLE ARTICLES FOUND AT SITE

All gold, silver and other minerals of any description and all precious stones, coins, treasure, relics, antiques and all other similar things which shall be found in, under or upon the site, shall be the property of the owner/ BSCDCL.

MATERIALS OBTAINED FROM DISMANTLEMENT TO BE OWNER'S PROPERTY

All materials like stone, boulders and other materials obtained during the work of dismantling, excavation etc. will be considered BSCDCL/owner property and such materials shall be disposed off to the best advantage of BSCDCL/owner according to the instructions in writing issued by the Engineer-in-charge.

LABOUR LAWS -

LABOUR LAWS TO BE COMPLIED BY THE CONTRACTOR

The contractor shall obtain a valid license under the contract labour (Regulation & Abolition) Act 1970 and the contract labour Act (Regulation & Abolition) Central Rules 1971 and amended from time to time, and continue to have a valid license until the completion of the work including defect liability period. The contractor shall also adhere by the provision of the child labour (Prohibition and Regulation) Act. 1986 and as amended from time to time.

The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.

Any failure to fulfil above requirement shall attract the penal provisions of this contract arising out the resultant for non execution of the work before the commencement of work. No labour below the age of 18 years shall be employed on the work.

Payment of wages:

The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the BSCDCL Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.

The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.

In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the BSCDCL contractor's Labour Regulations in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorisedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.

(a) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.

(b) Under the provision of Minimum Wages (Central) Rules, 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned

The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.

The contractor shall indemnify and keep indemnified BSCDCL against payments to be made under and for the observance of the laws aforesaid and the BSCDCL Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.

The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.

LABOUR SAFETY PROVISION

The contractor shall be fully responsible to observe the labour safety provisions:

The contractor shall at his own cost take all precautions to ensure safety of life and property by providing necessary barriers, lights, watchmen etc. during the progress of work as directed by Engineer-in-charge.

In case of all labour directly or indirectly employed in work for the performance on the contractor's part of this contract, the contractor shall comply with all rules framed by Govt. from time to time for the protection of health and sanitary arrangements for workers.

OBSERVANCE OF LABOUR LAWS

The contractor shall be fully responsible for observance of all labour laws applicable including local laws and other laws applicable in this matter and shall indemnify and keep indemnified BSCDCL against effect or non-observance of any such laws. The contractor shall be liable to make payment to all its employees, workers and sub-contractors and make compliance with labour laws. If BSCDCL or the client/owner is held liable as "Principal Employer" to pay contributions etc. under legislation of Government or Court decision in respect of the employees of the contractor, then the contractor would

reimburse the amount of such payments, contribution etc. to BSCDCL and/ or same shall be deducted from the payments, security deposit etc. of the contractor.

The Contractor shall submit proof of having valid EPF registration certificate. He shall within 7 days of the close of every month, submit to BSCDCL a statement showing the recoveries of contributions in respect of each employee employed by or through him and shall furnish to BSCDCL such information as the BSCDCL is required to furnish under the provisions of para 36 B of the EPF scheme 1952 to the EPF authorities and other information required by EPFO authorities from time to time. He shall also submit a copy of challan every month in token of proof of having deposited the subscription and contribution of workers engaged on the project.

In case, the contractor is not complying the above provision BSCDCL shall withhold payment to the extent of 4.70% (Four point Seven Zero percent) of the value of the Running Account bill and shall release only after the submission of above mentioned details. If it is incumbent upon BSCDCL to deposit withhold amount with EPF authorities, the withhold amount shall be deposited by BSCDCL with EPF authorities. In such a case BSCDCL shall not refund this withheld amount to the contractor even after the production of EPF registration certificate.

MINIMUM WAGES ACT

The contractor shall comply with all the provisions of the minimum wages Act, 1948, contract labour Act (Regulation & Abolition) 1970, and rules framed there under and other labour laws/local laws affecting contract labour that may be brought into force from time to time.

LABOUR CESS

The rates of the contractor shall be inclusive of labour cess. BSCDCL shall make a recovery @ 1% on account of labour cess from each RA bill of the contractor and labour cess so recovered/deducted shall be deposited with the Labour Board of the concerned state. In case the Labour Board is not established in the state, recovery made by BSCDCL on account of labour cess shall be retained under suspense account and will be deposited with the Labour Board at later date as & when the Labour Board is constituted in the state.

Every contractor, sub-contractor, affiliates, their legal assigns or heirs as the case may, shall be responsible for registration of every Building worker who has completed eighteen years of age but has not completed sixty years of age and who has been engaged in any Building or Other Construction Work for not less than Ninety Days during the preceding twelve months; with the Board / Funds as applicable under various sections of "THE BUILDINGS AND OTHER.

CONSTRUCTION WORKERS (REGULATION OF EMPLOYMENT AND CONDITIONS OF SERVICE) ACT, 1996 and THE BUILDING AND OTHER

CONSTRUCTIONWORKERS' WELFARE CESS ACT, 1996.

The contractor shall also be responsible for maintaining register of beneficiaries i.e. the

workers in such form as may be prescribed by the competent authority & the same shall be kept open at all reasonable times for inspection of relevant authority and officials of client / BSCDCL.

The contractor shall be further responsible for maintaining such register & records; giving such particulars of Building workers employed by him, the work performed by them, the number of hours of work which shall constitute a normal working day, the wages paid to them, the receipts given by them and, such other particulars in such form as may be prescribed by the authority or BSCDCL.

In the event of contractor failing to comply with the above clause(s) in part or in full, BSCDCL, without prejudice to any other rights or remedy available under law or any other clause(s) of contract, shall be at absolute liberty to forfeit any sum or sums that are payable or could become payable on account of execution of contract work and decision of Engineer-in-charge shall be final & binding in this regard on the contractor.

RECOVERY OF COMPENSATION PAID TO WORKMEN

In every case in which by virtue of the provisions sub-section (1) of Section 12, of the Workmen's Compensation Act, 1923, BSCDCL is obliged to pay compensation to a workman employed by the contractor, in execution of the works, BSCDCL will recover from the contractor, the amount of the compensation so paid; and, without prejudice to the rights of the BSCDCL under sub-section (2) of Section 12, of the said Act, BSCDCL shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due to the contractor whether under this contract or otherwise. BSCDCL shall not be bound to contest any claim made against it under sub-section (1) of Section 12, of the said Act, except on the written request of the contractor and upon his giving to BSCDCL full security for all costs for which BSCDCL might become liable in consequence of contesting such claim.

ENSURING PAYMENT AND AMENITIES TO WORKERS IF CONTRACTOR FAILS

In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and of the Contract Labour (Regulation and Abolition) Central Rules, 1971, BSCDCL is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act or under the BSCDCL Contractor's Labour Regulations, or under the Rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by BSCDCL's Contractors, BSCDCL will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to any other right or remedy available under this contract, BSCDCL shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by BSCDCL to the contractor whether under this contract or otherwise BSCDCL shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the BSCDCL full security for all costs for which BSCDCL might become liable in contesting such claim.

CHANGE IN FIRM'S CONSTITUTION TO BE INTIMATED

Where the contractor is a partnership firm, the prior approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If prior approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause of tender document hereof and the same action may be taken, and the same consequences shall ensue as provided in the tender document

INDEMNITY AGAINST PATENT RIGHTS

The contractor shall fully indemnify the BSCDCL from and against all claims and proceedings for or on account of any infringement of any patent rights, design, trademark or name or other protected rights in respect of any construction plant, machine, work or material used for in connection with the works or temporary works.

LAW COVERING THE CONTRACT

This contract shall be governed by the Indian laws for the time being in force.

LAWS, BYE-LAWS RELATING TO THE WORK

The contractor shall strictly adhere by the provisions, for the time being in force, of law relating to works or any regulations and bylaws made by any local authority or any water & lighting agencies or any undertakings within the limits of the jurisdiction of which the work is proposed to be executed. The contractor shall be bound to give to the authorities concerned such notices and take all approvals as may be provided in the law, regulations or bylaws as aforesaid, and to pay all fees and taxes payable to such authorities in respect thereof.

CONTRACT AGREEMENT

The Contractor shall enter into a Contract Agreement with the BSCDCL within 10 (TEN) days from the date of Letter of Award or within such extended time, as may be granted by the BSCDCL failing which no payment shall be released to the contractor. The cost of stamp papers, stamp duty, registration, if applicable on the contract, shall be borne by the Contractor. In case, the contractor does not sign the agreement as above or start the work within 10 (Ten) days of the issue of letter of Award, his earnest money is liable to be forfeited and Letter of award consequently will stand withdrawn.

MANNER OF EXECUTION OF AGREEMENT

The agreement as per prescribed Performa as enclosed shall be signed at the office of the BSCDCL within 10(TEN days) days from the date of issue of Letter of Award. The Contractor shall provide for signing of the Contract, appropriate Power of Attorney and the requisite documents/ materials. Unless and until a formal contract is prepared and executed, the Letter of Award read in conjunction with the Tendering Documents will constitute a binding contract. The agreement will be signed in five originals and the Contractor shall be provided with one signed original and the other four originals will be retained by the BSCDCL

The Contractor shall provide free of cost to the BSCDCL all the Engineering data, drawings and descriptive materials submitted along with the tender, in at least three (3) copies to form an integral part of the Agreement within seven 7 days after issuing of Letter of Award.

Subsequent to signing of the Agreement, the Contractor at his own cost shall provide to the BSCDCL with at least five (5) true hard bound copies of Agreement within thirty (30) days of its signing.

JURISDICTION

The agreement shall be executed at BHOPAL on non-judicial stamp paper purchased in BHOPAL and the courts in BHOPAL alone will have jurisdiction to deal with matters arising there from, to the exclusion of all other courts.

APPROVAL OF TEMPORARY / ENABLING WORKS

The setting and nature of all offices, huts, access road to the work areas and all other temporary works as may be required for the proper execution of the works shall be subject to the approval of the Engineer-in-charge. All the equipments, labour, material including cement, reinforcement and the structural steel required for the enabling/temporary works associated with the entire Contract-shall have to be arranged by the Contractor only. Nothing extra shall be paid to the Contractor on this account.

CLARIFICATION AFTER TENDER SUBMISSION

Bidder's attention is drawn to the fact that during the period, the tenders are under consideration, the Bidders are advised to refrain from contacting by any means, the BSCDCL and/or his employees/ representatives on matters related to the tender under consideration and that if necessary, BSCDCL will obtain clarifications in writing or as may be necessary. The tender evaluation and process of award of works is done by duly authorized Tender Scrutiny Committee and this committee is authorized to discuss and get clarification from the Bidders.

ORDER OF PRECEDENCE OF DOCUMENTS

In case of difference, contradiction, discrepancy, with regard to conditions of contract, Specifications, Drawings, Bill of quantities etc. forming part of the contract, the following shall prevail in order of precedence. Letter of Award, along with statement of agreed variations and its enclosures, if any. Description of Bill of Quantity / Schedule of Quantities. Special Condition of Contract. Technical specifications (General, Additional and Technical Specification) as given in Tender documents.

General Conditions of Contract. Drawings, CPW D/ BSCDCL specifications (as specified in Technical Specification of the Tender) update with correction slips issued up to last date of receipt of tenders. Relevant B.I.S. Codes.

SECTION-4

LABOUR SAFETY, HEALTH AND REGULATIONS INCLUDING FORMS

LABOUR SAFETY PROVISIONS

Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and hand holds shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal and 1 vertical).

Scaffolding or staging more than 3.6m (12 feet) above the ground or floor, swung or suspended from an overhead support or erected with stationery support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3 feet) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

Working platforms, gangways, and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6m (12 feet) above ground level or floor level, they should be closely boarded, should have adequate width & should be suitable fastened as described in (2.0) above.

Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 90 cm (3 feet).

Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30 feet) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11.5") for ladder up to and including 3m (10 feet) in length. For longer ladders this width should be increased at least $\frac{1}{4}$ " for each additional 30 cm (1 ft.) of length. Uniform step spacing shall not exceed 30 cm (12"). Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of the work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident, and shall be bound to bear the expenses of defense of every suit, action

or other proceeding at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any such person or which may, with the consent of the Contractor, be paid to compensate any claim by any such person.

4.1. a) White lead, sulphate or lead work products containing those pigments shall not be used in painting operation except in the form of paste or of paints ready for use.

Measures shall be taken whenever required in order to prevent danger arising from the application of paint in the form of spray.

Measures shall be taken, whenever practicable to prevent danger arising out of dust caused by dry rubbing down and scrapping.

b) Adequate facilities shall be provided to enable working painter to wash during and on cessation of work.

Suitable arrangements shall be made to prevent clothing put off during working hours being spoiled by painting materials.

4.2 a) Cases of lead poisoning and of suspected lead poisoning shall be notified and shall be subsequently verified by a medical man appointed by the competent authorities of BSCDCL.

The BSCDCL may require when necessary a medical examination of workers.

Instructions with regard to the special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provisions should be made for prompt first aid treatment for all injuries likely to be sustained during the course of the work.

Use of hoisting machines and tackle including their attachment encourage and supports shall conform to the following standard of conditions.

b) these shall be of good mechanical construction, sound material and adequate strength and free from patent, defects and shall be kept in good working order.

Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.

Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in-charge of any hoisting machine including any scaffolding, winch or giving signals to operator. In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this clause shall be loaded beyond the safe working load except for the purpose of testing.

In case of BSCDCL machines, the safe working load shall be notified by the Engineer-in-Charge. As regards Contractor's machines the Contractor shall notify the safe working load of the machine to the Engineer-in-charge whenever he brings any machinery to site of work and get verified by the Engineer-in-Charge.

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

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

These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place of work spot. The person responsible for compliance of the safety codes shall be named therein by the contractor.

To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the Contractor shall be open to inspection by BSCDCL Official or their representatives.

Notwithstanding the above Clauses from (i) to (xiv) there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

SECTION-5

FORMS AND FORMATS

FORM XXV

DETAILS OF THE BALANCE WORK IN HAND AS ON
(UPTO THE PRECEDING MONTH OF SUBMISSION OF BID) WITH BSCDCL

(To be submitted in Envelop-1)

S. No	Name of the Unit/Zone/SBG/R G B	Contract Value	Date of start as per LOI/ Contract	Date of completion as per LOI / Contract	Work done up to the preceding month of submission of bid	Balance value of work

Note: The bidder shall also include the value of all such works which are awarded to bidder but yet not started up to the preceding month of submission of bid.

FORM XXVI

AFFIDAVIT

(To be submitted by bidder on non-judicial stamp paper of Rs. 100/- (Rupees Hundred only) duly attached by Notary Public)

(To be submitted in Mandatory Doc)

Affidavit of Mr.S/o

R/o

I, the deponent above named do hereby solemnly affirm and declare as under:

That I am the Proprietor/Authorized signatory of M/s..... Having its Head Office/Regd. Office at

That the information/documents/Experience certificates submitted by M/s..... along with the tender for (NAME OF WORK).....

To BSCDCL Ltd. are genuine and true and nothing has been concealed.

I shall have no objection in case BSCDCL verifies them from issuing authority(ies). I shall also have no objection in providing the original copy of the document(s), in case BSCDCL demand so for verification.

I hereby confirm that in case, any document, information & / or certificate submitted by me found to be incorrect / false / fabricated, BSCDCL at its discretion may disqualify / reject / terminate the bid/contract and also forfeit the EMD / All dues.

I shall have no objection in case BSCDCL verifies any or all Bank Guarantee(s) under any of the clause(s) of Contract including those issued towards EMD and Performance Guarantee from the Zonal Branch /office issuing Bank and I/We shall have no right or claim on my submitted EMD before BSCDCL receives said verification.

That the Bank Guarantee issued against the EMD issued by (name and address of the Bank) is genuine and if found at any stage to be incorrect / false / fabricated, BSCDCL shall reject my bid, cancel pre-qualification and debar me from participating in any future tender for three years.

I,, the Proprietor / Authorised signatory of M/s..... do hereby confirm that the contents of the above Affidavit are true to my knowledge and nothing has been concealed there from..... and that no part of it is false.Verified at this..... day of

DEPONENT

ATTESTED BY (NOTARY PUBLIC)

APPLICATION FOR EXTENSION OF TIME

(To be completed by the Contractor)

P A R T –I

Name of Contractor

Name of the work as given in the Agreement

Agreement No.

Estimated amount put to tender

Date of commencement work as per agreement

Period allowed for completion of work as per agreement

Date of completion stipulated as per agreement

Period for which extension of time has
been give previously

Extension granted

First extension vide Engineer-in-charge letter No... ..date	Months	Days
---	--------	------

2nd extension vide Engineer-in-charge letter No..... date	Months	Days
---	--------	------

3rd extension vide Engineer-in-charge letter No..... date	Months	Days
---	--------	------

4th extension vide engineer-in-charge letter No..... date	Months	Days
---	--------	------

Total extension previously given

Reasons for which extension have been previously given (copies of the previous application should be attached)

Period for which extension is applied for:

Hindrances on account of which extension is applied for with dates on which hindrances occurred, and the period for which these are likely to last.

Serial No.

Nature of hindrance

Date of Occurrence

Period for which it is likely to last

Period for which extension required for this particular hindrance. Overlapping period, if any, with reference to item

Net extension applied for

Remarks, if any

Total period for which extension is now applied for on account of hindrances mentioned above Month/ days.

Extension of time required for extra work.

Details of extra work and on the amount involved:

Total value of extra work

Proportionate period of extension of time based on estimated amount put to tender on account of extra work.

Total extension of time required for 11 & 12

Submitted to the Engineer-in-Charges office.

SIGNATURE OF CONTRACTOR DATE

APPLICATION FOR EXTENSION OF TIME

(PART – II)

Date of receipt of application from Contractor for the work in the Engineer-in-charge office.

Acknowledgement issued by Engineer-in-charge vide his letter No. dated

Engineer-in-charge remarks regarding hindrances mentioned by the Contractor.

Serial No.

Nature of hindrance

Date of occurrence of hindrance

Period for which hindrance, is likely to last

Extension of time period applied for by the contractor

Over lapping period, if any, giving reference to items which over lap

Net period for which extension is recommended.

Remarks as to why the hindrance occurred and justification for extension recommended.

Engineer-in-charge recommendations.

The present progress of the work should be stated and whether the work is likely to be completed by the date up to which extension has been applied for. If extension of time is not recommended, what compensation is proposed to be levied under the agreement.

SIGNATURTE OF ENGINEER-IN-CHARGE

PROFORMA FOR EXTENSION OF TIME
P A R T -III

To

NAME

ADDRESS OF THE CONTRACTOR SUBJECT:

Dear Sir(s)

Reference your letter No _____ dated _____ , in connection with the grant of extension of time for completion of the work.....

The date of completion for the above mentioned work, is as stipulated in the agreement, dated

Extension of time for completion of the above mentioned work is granted upto _____, without prejudice to the right of the BSCDCL to recover compensation for delay in accordance with the provision made in Clause of the said agreement dated the ___/ ___/ ___. It is also clearly understood that the BSCDCL shall not consider any revision in contract price or any other compensation whatsoever due to grant of this extension.

Provided that notwithstanding the extension hereby granted, time is and shall still continue to be the essence of the said agreement.

Yours faithfully,

FOR BHOPAL SMART CITY DEVELOPMENT CORPORATION LTD.

PROFORMA OF BANK GUARANTEE IN LIEU OF E M D (TENDER BOND)
(Judicial Stamp paper of appropriate value as per stamp Act-of respective state)

In consideration of Bhopal Smart City Development Corporation Limited, having its Registered Office at, Near Tatpar Petrol Pump Sector A, Berkheda (hereinafter called "BSCDCL" which expression shall unless repugnant to the subject or context include its successors and assigns) having issued Notice Inviting Tender No..... and M/s..... having its Registered Head Office at..... (Hereinafter called the "BIDDER") is to participate in the said tender for.....

Whereas BSCDCL, as a special case, has agreed to accept an irrevocable and unconditional Tender Bond Guarantee for an amount of Rs..... valid upto..... From the Bidder in lieu of Cash Deposit of Rs..... Required to be made by the Bidder, as a condition precedent for participation in the said tender.

We the..... (hereinafter called the "BANK") having its Registered, Office at..... and branch office at..... do hereby unconditionally and irrevocably undertake to pay immediately on demand in writing and without demur/protest any amount but not exceeding Rs Any such demand made by BSCDCL shall be conclusive and binding on us irrespective of any dispute or differences that may be raised by the Bidder. Any change in the constitution of the Bidder or the Bank shall not discharge our liability under the guarantee.

We, the..... Bank, lastly undertake not to revoke this guarantee during its currency without the prior consent of BSCDCL in writing and this guarantee shall remain valid upto..... Unless a claim is made within three months from the date of expiry i.e.

..... (Three months after the date of expiry), we shall be relieved of our liability under this guarantee thereafter.

FOR AND ON BEHALF OF BANK

PLACE:

DATED :

WITNESS.

1.

2

PROFORMA OF BANK GUARANTEE (PERFORMANCE)
(Judicial Stamp paper of appropriate value as per stamp Act-of respective state)

Whereas the Bhopal Smart City Development Corporation Limited, having its Registered Office at BSCDCL Near Tatpar Petrol Pump Sector A, Berkheda, Bhopal (hereinafter called "BSCDCL" which expression shall include its successors and assigns) having awarded a work order/contract / supply order No. Dated (hereinafter called the contract) to M/s. (Hereinafter called

the contractor / supplier) at a total price of Rs..... Subject to the terms and conditions contained in the contract.

WHEREAS, the terms and conditions of the contract require the contractor to furnish a

Rs.... (Rupees.....
bank guarantee for ..) being..... % of the
total value of the contract for proper execution and due fulfillment of the
terms and conditions contained in the contract.

We, the Bank, (hereinafter called the "Bank") do hereby unconditionally and
Irrevocably undertake to pay to BSCDCL
Immediately on demand in writing and
without protest/or demur all moneys payable by the contractor/supplier to
BSCDCL in connection with the execution/supply of and performance of
the works/equipment, inclusive of any loss, damages, charges, expenses and
costs caused to or suffered by or which would be caused to or suffered by
BSCDCL by
reason of any breach by the contractor/supplier of any of the terms and conditions
contained in the contract as specified in the notice of demand made by BSCDCL to the
bank. Any such demand made by BSCDCL on the bank shall be conclusive evidence of
the amount due and payable by the bank under this guarantee. However, the
Bank's liability under this guarantee, shall be limited to Rs..... in the
aggregate and the bank hereby agrees to the following terms and conditions:-

- (i) This guarantee shall be a continuing guarantee and irrevocable for all claims of BSCDCL as specified above and shall be valid during the period specified for the performance of the contract including the period of maintenance/warranty i.e. up to.....
- (ii) We the said bank further agree with BSCDCL that BSCDCL shall have the fullest liberty without our consent and without affecting in any manner our obligations and liabilities hereunder to vary any of the terms and conditions of the said contract or to extend time for performance of contract by the contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by BSCDCL against the

contractor/supplier under the contract and forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variations or extension being granted to the contractor or for any forbearance, act or omission on the part of BSCDCL or any indulgence by BSCDCL to the contractor or by any such matter or thing whatsoever, which under the law relating to the sureties would, but for this provision, have effect of so relieving us.

This guarantee/undertaking shall be in addition to any other guarantee or security whatsoever BSCDCL may now or at any time have in relation to the performance of the works/equipment and the company shall have full re-course to or enforce this security in performance to any other security or guarantee which the BSCDCL may have or obtained and there shall be no forbearance on the part of the company in enforcing or requiring enforcement of any other security which shall have the effect of releasing the Bank from its full liability. It shall not be necessary for BSCDCL to proceed against the said contractor/supplier before proceeding against the Bank.

This guarantee/ undertaking shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the supplier/ contractor, but shall in all respects and for all purposes be binding and operative until payment of all moneys payable to BSCDCL in terms thereof are paid by the Bank.

The Bank hereby waives all rights at any time inconsistent with the terms of this Guarantee and the obligations of the bank in terms hereof, shall not be otherwise effected or suspended by reasons of any dispute or disputes having been raised by the supplier/contractor (whether or not pending before any Arbitrator, Tribunal or Court) or any denial of liability by the supplier/contractor stopping or preventing or purporting to stop or prevent any payment by the Bank to BSCDCL in terms hereof.

We, the said Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of BSCDCL in writing. Unless a claim is made in writing within three months from the date of expiry of this guarantee i.e.....

(three months after the date of expiry) we shall be relieved from all liabilities under

this guarantee thereafter.

Sign this day ofat

For and on behalf of Bank

WITNESS.

- 1.
- 2.

PROFORMA OF BANK GUARANTEE (FOR MOBILIZATION ADVANCE)
(Judicial Stamp paper of appropriate value as per stamp Act-of respective state)

Bhopal Smart City Development Corporation Limited, Near Tatpar Petrol Pump, Sector A, Berkheda, Bhopal, Madhya Pradesh 4620231.0 In consideration of the Bhopal Smart City Development Corporation Limited, having its Registered Office at BSCDCL, Near Tatpar Petrol Pump, Sector A, Berkheda, Bhopal (hereinafter called "BSCDCL" which expression shall unless repugnant to the subject or context include his successor and assigns) having agreed under the terms and conditions of Contract No..... dated..... made between..... and BSCDCL in connection with..... (hereinafter called "the said contract") to make at the request of the Contractor a Mobilization Advance of Rs..... for utilizing it for the purpose of the Contract on his furnishing a guarantee acceptable to BSCDCL, we the Bank Ltd., (hereinafter referred to the "the said Bank") and having our registered office at..... do hereby guarantee the due recovery by BSCDCL of the said advance as provided according to the terms and conditions of the Contract. We..... do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on a demand from BSCDCL stating that the amount claimed is due to BSCDCL under the said Agreement. Any such demand made on the..... shall be conclusive as regards the amount due and payable by the..... under this guarantee and..... agree that the liability of the to pay BSCDCL the amount so demanded shall be absolute and unconditional notwithstanding any dispute or disputes raised by the Contractor and notwithstanding any legal proceeding pending in any court or Tribunal relating thereto. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs..... We Bank further agree that BSCDCL shall be the sole judge of and as to whether the amount claimed has fallen due to BSCDCL under the said agreement or whether the said Contractor has not utilized the said advance or any part thereof for the purpose of the Contract and the extent of loss or damage caused to or suffered by BSCDCL on account of the said advance together with interest not being recovered in full and the decision of BSCDCL that the amount has fallen due from contractor or the said Contractor has not utilized the said advance or any part thereto for the purpose of the contract and as to the amount or amounts of loss or damage caused to or suffered by BSCDCL shall be final and binding on us.

We, the said Bank, further agree that the Guarantee herein contained shall remain in full force and effect till the said advance has been fully recovered and its claims satisfied or discharged and till BSCDCL certify that the said advance has been fully recovered from the said Contractor, and accordingly discharges this Guarantee subject, however, that BSCDCL shall have no claims under this Guarantee after the said advance has been fully recovered, unless a notice of the claims under this Guarantee has been served on the Bank before the expiry of the said Bank Guarantee in which case the same shall be enforceable against the Bank.

BSCDCL shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee or indemnity from time to time to vary any of the terms and conditions of the said Contract or the advance or to extend time of performance by the said Contractor or to postpone for any time and from time to time of the powers exercisable by it against the said Contractor and either to enforce or forbear from enforcing any of terms and conditions governing the said Contract or the advance or securities available to BSCDCL and the said Bank shall not be released from its liability under these presents by any exercise by BSCDCL of the liberty with reference to the matters aforesaid or by reasons of time being given to the said Contractor or any other forbearance, act or omission on the part of BSCDCL or any indulgence by BSCDCL to

The said Contractor or of any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of so releasing the bank from its such liability. 5.0 It shall not be necessary for BSCDCL to proceed against the Contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank notwithstanding any security which BSCDCL may have obtained or obtain from the Contractor or shall at the time when proceedings are taken against the Bank hereunder be outstanding or unrealized.

We, the said Bank, lastly undertake not to revoke this Guarantee during its currency except with the previous consent of BSCDCL in writing and agree that any change in the constitution of the said Contractor or the said Bank shall not discharge our liability hereunder.

Dated thisday of.....

For and on behalf of Bank

(NAME AND DESIGNATION)

Dated:

**PROFORMA OF BANK GUARANTEE
(IN LIEU OF SECURITY DEPOSIT)**

(Judicial Stamp paper of appropriate value as per stamp Act-of respective state)

Bhopal Smart City Development Corporation Ltd.,
Near Tatpar Petrol Pump, Sector A,
Berkheda, Bhopal

In consideration of the Bhopal Smart City Development Corporation Ltd., having its Registered Office at Near Tatpar Petrol Pump Sector A, Berkheda (hereinafter called "BSCDCL") which expression shall include its successors and assigns having awarded to M/s..... (hereinafter called "the Supplier/Contractor") which expression shall wherever the subject or context so permits includes its successors and assigns) a Contract in terms inter-alia of BSCDCL's letter No..... dated..... and the Contract/Purchase Conditions of BSCDCL and upon the condition of the Supplier/Contractor furnishing Security for the performance of the Supplier's obligations and /or discharge of the contractor's/supplier's liability under and/or in connection with the said supply contract upto a sum of Rs..... (Rupees..... only)

We,..... ((hereinafter called "The Bank") which expression shall include its successors and assigns) hereby undertake and guarantee payment to BSCDCL forthwith on the same day on demand in writing and without protest or demur of any and all moneys payable by the supplier/contractor to BSCDCL under, in respect or in connection with the said contract inclusive of all the losses, damages, costs, charges and expenses and other moneys payable in respect of the above as specified in any notice of demand made by BSCDCL to the Bank with reference to this guarantee upto and aggregate limit of Rs.....(Rupees.....only) and the bank hereby agree with BSCDCL that:

This Guarantee shall be continuing guarantee and shall remain valid and irrevocable for all claims of BSCDCL and liabilities of Supplier/Contractor arising upto and until midnight of.....

This Guarantee shall be in addition to any other Guarantee or Security whatsoever that BSCDCL now or at any time have in relation to the Supplier's obligations/liabilities under and/or in connection with the said supply/contract, and BSCDCL shall have full authority to take recourse or to enforce this Security in preference to any other Guarantee or Security which BSCDCL may have or obtain and no forbearance on the part of BSCDCL in enforcing or requiring enforcement of any other Security shall have the effect of releasing the Bank from its liability hereunder.

BSCDCL shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other security in respect of the Supplier's/Contractor's obligations and/ or liabilities under or in connection with the said supply/contract or to grant time and / or indulgence to the supplier / contractor or to increase or otherwise vary the prices or the total contract value or to release or to forbear from enforcement of all or any of the conditions under the said supply / contract and / or the remedies of BSCDCL under any other security/securities now or hereafter held by BSCDCL and no such dealings, increase(s) or other indulgence(s) or arrangement(s) with the supplier / contractor or releasing or forbearance whatsoever shall have the effect of releasing the Bank from its full liability to BSCDCL hereunder or prejudicing rights of BSCDCL against the Bank. This Guarantee shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the supplier / contractor but shall in all respects and for all purposes be binding and operative until payment of all moneys payable to BSCDCL in terms thereof.

The Bank hereby waives all rights at any time inconsistent with the terms of this Guarantee and the obligations of the Bank in terms hereof shall not be otherwise affected or suspended by reason of any dispute or disputes having been raised by the supplier /contractor (whether or not pending before any Arbitrator, Tribunal or Court) or any denial or liability by the supplier/ contractor stopping/ preventing or purporting to stop or prevent any payment by the Bank to BSCDCL in terms thereof.

The amount stated in any notice of demand addressed by BSCDCL to the Guarantor as liable to be paid to BSCDCL by the supplier/contractor or as suffered or incurred by BSCDCL on account of any losses or damages, costs, charges and / or expenses shall as between the Bank and BSCDCL be conclusive of the amount so liable to be paid to BSCDCL or suffered or incurred by BSCDCL as the case may be and payable by the Guarantor to BSCDCL in terms hereof subject to a maximum of Rs (Rupees only),

Unless demand or claim under this Guarantee is made on the Guarantor in writing within three months from the date of expiry of the Guarantee i.e upto the Guarantor shall be discharged from all liabilities under this Guarantee there under.

Notwithstanding anything contained herein before our liability under this guarantee is restricted to Rs (Rupeesonly). This guarantee will expire on..... Any claim under this Guarantee must be received by us within three months from the date of expiry i.e. (date, three months after the expiry date) and if no such claim has been received by us by that date all your rights under this guarantee will cease.

For and on behalf of the Bank

Place Date

WITNESS:

1.

2.

PROFORMA OF BANK GUARANTEE
(FOR MOBILIZATION ADVANCE WITH INTEREST BEARING)
(Judicial Stamp per Stamp Act - paper of appropriate value as respective state)

Bhopal Smart City Development Corporation Limited,
Bhopal, Pin- 462023

In consideration of the Bhopal Smart City Development Corporation Limited., having its Registered Office at Bhopal -462023 (hereinafter called "BSCDCL" which expression shall unless repugnant to the subject: or context Include his successor and assigns) having agreed under the terms and conditions of Contract No. dated made between (name of the contractor) and BSCDCL in connection with (name of work) (hereinafter called "the said contract") to make at the request of the Contractor a Mobilization Advance of Rs. carrying interest @ ... % p.a. for utilizing it for the purpose of the Contract on his furnishing a guarantee acceptable to BSCDCL, we the Bank (hereinafter referred to the "the said Bank") and having our registered office at do hereby guarantee the due recovery by BSCDCL of the said advance alongwith interest as provided according to the terms and conditions of the contract. We ...

do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely, on a demand from BSCDCL stating that the amount claimed is due to BSCDCL under the said Agreement. Any such demand made on the said bank shall be conclusive as regards the amount due and payable by the said contractor under this guarantee and agree that the liability of the said bank to pay BSCDCL the amount so demanded shall be absolute and unconditional notwithstanding any dispute or disputes raised by the Contractor and notwithstanding any legal proceeding pending in any court or Tribunal relating thereto. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs inclusive of interest @% p.a.

We the said bank further agree that BSCDCL shall be the sole judge of and as to whether the amount claimed has fallen due to BSCDCL under the said agreement or whether the said Contractor has not utilized the said advance or any part thereof for the purpose of the Contract and the extent of loss or damage caused to or suffered by BSCDCL on account of the said advance together with interest not being recovered in full and the decision of BSCDCL that the amount has fallen due from' contractor or the said Contractor has not utilized the said advance or any part thereto for the purpose of the contract and as to the amount or amounts of loss or damage caused to or suffered by BSCDCL shall be final and binding on us.

We, the said Bank, further agree that the Guarantee herein contained shall remain

in full force and effect till the said advance has been fully recovered and its claims satisfied or discharged and till BSCDCL certify Contractor, and accordingly discharges this Guarantee subject, however, that BSCDCL shall have no claims under this Guarantee unless a notice of the claims under this Guarantee has been served on the Bank before the expiry of the said Bank Guarantee in which case the same shall be enforceable against the Bank.

BSCDCL shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee or indemnity from time to time to vary any of the terms and conditions of the said Contract or the advance or to extend time of performance by the said Contractor or to postpone for any time and from time to time of the powers exercisable by it against the said Contractor and either to enforce or forbear from enforcing any of terms and conditions governing the said Contract or the advance or securities available to BSCDCL and the said Bank shall not be released from its liability under these presents by any exercise by BSCDCL of the liberty with reference to the matters aforesaid or by reasons of time being given to the said Contractor or any other forbearance, act or omission on the part of BSCDCL or any indulgence by BSCDCL to the said Contractor or of any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of so releasing the bank from its such liability.

It shall not be necessary for BSCDCL to proceed against the Contractor before proceeding against the Bank and Guarantee herein contained shall be enforceable against the Bank notwithstanding any security which BSCDCL may have obtained or obtain from the Contractor or shall at the time when proceedings are taken against the Bank hereunder be outstanding or unrealized.

We, the said Bank, lastly undertake not to revoke this Guarantee during its currency except with the previous consent of BSCDCL in writing and agree that any change in the constitution of the said Contractor or the said Bank shall not discharge our liability hereunder.

Dated this..... day of.....

Place:

Date:

Witness:

1.

**FORM FOR GUARANTEE BOND
FOR ANTI-TERMITE TREATMENT**

THIS AGREEMENT made this ____ day of Two thousand ____ between M/s _____ (hereinafter called the guarantor of the one part and M/s Bhopal Smart City Development Corporation Limited, hereinafter called the BSCDCL hereinafter called the OWNER of the other part.

Whereas this agreement is supplementary to the contract hereinafter called the contract dated _____ made between the guarantor of the one part and National Buildings Construction Corporation Ltd., of the other part whereby the contractor inter-alia, understood to render the buildings and structures in the said contract recited, completed, termite proof. And whereas the guarantor agreed to give a guarantee to the effect that the said structure will remain termite proof for TEN YEARS to be so reckoned from the date after the maintenance period prescribed in the contract expires.

During this period of guarantee the guarantor shall make good all defects and for that matter shall replace at his risk and cost such wooden member as may be damaged by termite and in case of any other defect being found, he shall render the building termite proof at his cost to the satisfaction of the Engineer-in-charge and shall commence the works of such rectification within seven days from date of issuing notice from the Engineer-in-Charge calling upon him to rectify the defects falling which the work shall be got done by BSCDCL/ OWNER by some other contractor at the guarantor's cost and risk and in the later case the decision of the Engineer-in-charge as to the cost recoverable from the guarantor shall be final and binding.

That if the Guarantor fails to execute the Anti-Termite treatment or commits breaches hereunder then the Guarantor will indemnify BSCDCL against all losses damages, cost expenses or otherwise which may be incurred by him by reasons of any default on the part of the guarantor in performance and observance of this supplemental Agreement. As to the amount of loss and or damage and/or cost incurred by BSCDCL/ OWNER decision of the Engineer-in-charge will be final and binding on the parties.

In witness where of these presents have been executed by the Guarantor _____ and by _____ for and on behalf of BSCDCL on the day of month and year first above written.

Signed sealed and delivered by (Guarantor)

IN THE PRESENCE OF: 1.

2.

Signed for and on behalf of BSCDCL by/ in presence of:

1.

2.

GUARANTEE TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS
AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

The agreement made this day of Two thousand One and between (hereinafter called Guarantor of the one part) and the BSCDCL (hereinafter called the Execution Agency of the other part).

WHEREAS this agreement is supplementary to a contract(hereinafter called the Contract), dated and made between the GUARANTOR OF THE ONE part and the BSCDCL of the other part, whereby the Contractor, inter-alia, undertook to render the buildings and structures in the said contract recited completely water and leak proof.

AND WHEREAS the Guarantor agreed to give a guarantee to the effect that the said structures will remain water and leak proof for ten years from the date of handing over o the structure of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be ten years to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the Guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose.

Misuse of roof shall mean any operation, which will damage proofing treatment, like chopping of fire wood and things of the same nature which might cause damage to the roof.

Alternation shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts

The decision of the Engineer-in-Charge with regard to cause of leakage shall be final

During this period of guarantee, the Guarantor shall make good all defects and in case of any defect being found render the building water proof to the satisfaction of the Engineer-in-Charge at his cost and shall commence the work for such rectification within seven days from the date of issue of notice from the Engineer-in-Charge calling upon him to rectify the defects failing which the work shall be got done by the BSCDCL by some other Contractor at the guarantor's cost and risk. The decision of Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the Guarantor fails to execute the water proofing or commits breach there-under, then the Guarantor will indemnify the principal and his successors against all laws damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and / or damage and/ or cost incurred by the BSCDCL, the decision of the Engineer-in-Charge will final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor,,,,,..... and by And for and on behalf of the BSCDCL on the day, month and year first above written.

Signed, sealed and delivered by Obligator in the presence of-

1.

2.

Signed for and on behalf of the BSCDCL by _____

In presence of:

1.

2.

PROFORMA OF
INDENTURE FOR SECURED ADVANCE OR CREDIT

THIS INDENTURE made this day of _____ Between ___(hereinafter called the contractor) which expression shall where the Context as admits or implies be deemed to include his executor/administrators and assign of the one part and National Buildings Construction Corporation Ltd., having its Registered Office at BSCDCL, Bhopal (hereinafter called the Engineer) which expression shall where the context so admits or implies be deemed to include its successors and assign of the other part.

Whereas by an agreement dated (hereinafter called the said agreement). The Contractor has agreed to construct.....

And whereas the Contractor has applied to the Engineer that he may be or be given credited for materials brought by him to the site of the work subject to the said agreement for use in construction of the work.

NOW THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rs. _____ (Rupees _____ only) paid to the contractor by the Engineer. The receipt where the Contractor hereby acknowledges and of such advance or credited (if any) as may be made to him as aforesaid the Contractor hereby covenants and agrees with The Engineer and declares as follows:

That all sums given as advance or credit by The Engineer to the Contractor as aforesaid shall be employed by the Constructor in or toward the execution of the said works and for no other purpose whatsoever.

That the material for which the advance or credit is given are offered to and accepted by The Engineer as security and are absolutely the Contractor's own property and free from encumbrances of any kind the Contractor will not make any application for or receives further advance or credit on the security or material which are not absolutely his own property and free from encumbrances of any kind and the Contractor shall indemnify The Engineer against any claims to any material in respect of which advance or credit has been made to him as aforesaid.

That the said material and all other material on the security of which any further advance or advances or credit may be given as aforesaid (hereinafter called the said materials) shall be used by the Contractor's solely in the execution of the said works in accordance with the direction of the Engineer and in terms of said agreement.

That the Contractor shall make at his own cost all necessary and adequate arrangement for the proper safe custody and protection against all risks of the said material and that until used in the construction as aforesaid the material shall remain at the site of the said works in Contractor's custody and on his responsibility and shall at all times be open to inspection by The Engineer. In the events of the materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in greater degree than in

due to reasonable use and wear thereof the Contractor will replace the same with other materials of like quality of repair and make good the same as required by The Engineer. That said material shall not on any account be removed from the site of work except with the written permission of The Engineer.

That the advance shall be repayable in full when or before Contractor receives payment from The Engineer of the price payable to him for the said work under the term and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done then on the occasion of each payment The Engineer will be at liberty to make a recovery from the Contractor's bill from such payments by deducting there from the value of the said materials than actually used in the contraction and in respect of which recovery has not been made previously. The value of this purpose being determined in respect of each description of materials at the rates at which the amounts of the advance as made under these presents was calculated.

That if the Contractor shall at any time make at any default in the performance of observance in respect of any of the terms and provisions of the said agreement or of that provisions the total amount of the advance or advances that may still be owing to The Engineer, shall immediately on the happening of such default be repayable by the Contractor to The Engineer together with interest thereon at 12% p.a. from the date of respective dated to such advance or advances to the date of payment and with all costs. Damages and expenses incurred by The Engineer in or for recovery hereof or the Contractor hereby covenants and agrees with The Engineer to repay and pay the same respective to him accordingly.

That the Contractor hereby charges all the said materials with the repayment to The Engineer of all sums advances or credit as aforesaid and all costs. Charges, damages and expenses payable under these presents PROVIDED ALWAYS it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and wherever the covenant for payment and repayment herein before contained shall be become enforceable and the money owing shall not be paid in accordance therewith. The Engineer may at any time thereafter adopt all or any of the following courses he may deem best:

Seize the utilize the said material or any part thereof in the completion of the said works in accordance with the provision in that behalf contained in the said agreement debating the Contractor with the actual cost of effecting such completion and the amount due in respect of advance or credit under these presents and crediting the Contractor with value of work done as if he has carried it out in accordance with the said agreement and the rates thereby provided if the balance is against the Contractor is to pay the same to the engineer on demand.

Remove and sell by public action the seized materials or any part thereof and out of the money arising from the sale repay the engineer under these presents and pay over the surplus (if any) to the Contractor.

Deduct all or any part of the moneys owing from any sums due to the contractor under said agreement.

Expect in the event of such default on the part of contractor as aforesaid, interest on the said advance shall not be payable.

That in the event of conflict between the provisions of these presents and the said agreements, the provision of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents, the settlement of which has not been hereinbefore expressly provided for the same shall so far as is lawful be subject to jurisdiction of BHOPAL courts only.

IN WITNESS whereof the said the engineer and the contractor hereunto set their respective hands and seals the day year first above written.

Signed Sealed and delivered by

Contractor

The Engineers

AGREEMENT FORM

This agreement made this day of (Month) (Year), between the Bhopal Smart City Development Corporation Limited (BSCDCL), a company incorporated under the Companies Act, 1956 having its Registered Office at BSCDCL, Bhopal 462023 (hereinafter referred to as the "BSCDCL" which expression shall include its

administrators, successors, executors and assigns) of the one part and M/s (NAME OF CONTRACTOR) (hereinafter referred to as the 'Contractor' which expression shall unless the context requires otherwise include its administrators, successors, executors and permitted assigns) of the other part.

WHEREAS, BSCDCL, has desirous of construction of (NAME OF WORK) (hereinafter referred to as the "PROJECT") on behalf of the (NAME OF OWNER/MINISTRY) (hereinafter referred to as "OWNER"), had invited tenders as per Tender documents vide NIT No. _____.

AND WHEREAS (NAME OF CONTRACTOR) had participated in the above referred tender vide their tender dated _____ and BSCDCL has accepted their aforesaid tender and award the contract for (NAME OF PROJECT) on the terms and conditions contained in its Letter of Intent No. _____ and the documents referred to therein, which have been unequivocally accepted by (NAME OF CONTRACTOR) vide their acceptance letter dated _____ resulting into a contract.

NOW THEREFORE THIS DEED WITNESSETH AS UNDER:

ARTICLE 1.0 – AWARD OF CONTRACT

SCOPE OF WORK

BSCDCL has awarded the contract to (NAME OF CONTRACTOR) for the work of (NAME OF WORK) on the terms and conditions in its letter of intent No.

_____ dated _____ and the documents referred to therein. The award has taken effect from (DATE) i.e. the date of issue of aforesaid letter of intent. The terms and expressions used in this agreement shall have the same meanings as are assigned to them in the "Contract Documents" referred to in the succeeding Article.

ARTICLE 2.0 – CONTRACT DOCUMENTS

The contract shall be performed strictly as per the terms and conditions stipulated herein and in the following documents attached herewith (hereinafter referred to as "Contract Documents").

BSCDCL Notice Inviting Tender vide No. _____ date _____ and BSCDCL's tender documents consisting of:

General Conditions of Contract (GCC) alongwith amendments/errata to GCC (if any) issued (Volume-I).

Special Conditions of Contract including Appendices & Annexures, Volume-II.
Bill of Quantities alongwith amendments/corrigendum of schedule items, if any (Volume-II).

(NAME OF CONTRACTOR) letter proposal dated _____ and their subsequent communication:

Letter of Acceptance of Tender Conditions dated _____

BSCDCL's detailed Letter of Intent No. _____ dated ____ including Bill of

Quantities. Agreed time schedule, Contractor's Organization Chart and list of Plant and Equipment's submitted by Contractor.

All the aforesaid contract documents referred to in Para 2.1 and 2.2 above shall form an integral part of this Agreement, in so far as the same or any part thereof column, to the tender documents and what has been specifically agreed to by BSCDCL in its Letter of Intent. Any matter inconsistent therewith, contrary or repugnant thereto or deviations taken by the Contractor in its "TENDER" but not agreed to specifically by BSCDCL in its Letter of Intent, shall be deemed to have been withdrawn by the Contractor without any cost implication to BSCDCL. For the sake of brevity, this Agreement along with its aforesaid contract documents and Letter of Intent shall be referred to as the "Contract".

ARTICLE 3.0 – CONDITIONS & CONVENANTS

The scope of Contract, Consideration, terms of payments, advance, security deposits, taxes wherever applicable, insurance, agreed time schedule, compensation for delay and all other terms and conditions contained in BSCDCL's Letter of Intent No.

_____ dated _____ are to be read in conjunction with other aforesaid contract documents. The contract shall be duly performed by the contractor strictly and faithfully in accordance with the terms of this contract.

The scope of work shall also include all such items which are not specifically mentioned in the Contract Documents but which are reasonably implied for the satisfactory completion of the entire scope of work envisaged under this contract unless otherwise specifically excluded from the scope of work in the Letter of Intent.

Contractor shall adhere to all requirements stipulated in the Contract documents.

Time is the essence of the Contract and it shall be strictly adhered to. The progress of work shall conform to agreed works schedule/contract documents and Letter of Intent.

This agreement constitutes full and complete understanding between the parties and terms of the presents. It shall supersede all prior correspondence to the extent of inconsistency or repugnancy to the terms and conditions contained in Agreement. Any modification of the Agreement shall be effected only by a written instrument signed by the authorized representative of both the parties.

The total contract price for the entire scope of this contract as detailed in Letter of Intent is Rs. _____ (Rupees

_____ only), which shall be governed by the stipulations of the contract documents.

ARTICLE 4.0 – NO WAIVER OF RIGHTS

Neither the inspection by BSCDCL or the Engineer-in-Charge or Owner or any of their officials, employees or agents nor order by BSCDCL or the Engineer-in-Charge for payment of money or any payment for or acceptance of, the whole or any part of the work by BSCDCL or the Engineer-in-Charge nor any extension of time nor any possession taken by the Engineer-in-Charge shall operate as waiver of any provisions of the contract, or of any power herein reserved to BSCDCL, or any right to damage herein provided, nor shall any waiver of any breach in the contract be held to be a waiver or any other or subsequent breach.

ARTICLE 5.0 – GOVERNING LAW AND JURISDICTION

The Laws applicable to this contract shall be the laws in force in India and jurisdiction of BHOPAL Court (s) only.

Notice of Default

Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties hereto, if delivered against acknowledgment due or by FAX or by registered mail duly addressed to the signatories at the address mentioned herein above.

IN WITNESS WHEREOF, the parties through their duly authorized representatives have executed these presents (execution whereof has been approved by the Competent Authorities of both the parties) on the day, month and year first above mentioned at BHOPAL.

For and on behalf of:

For and on behalf of:

(NAME OF CONTRACTOR) (M/s Bhopal Smart City Development Corporation)

WITNESS:

WITNESS:

1.

1.

SECTION-6

**SPECIAL CONDITION OF
CONTRACT**

SPECIAL CONDITIONS OF CONTRACT (SCC)

GENERAL-

6.1. The following special conditions shall be read in conjunction with General conditions of contract. If there are any provisions in these Special Conditions, which are at variance with the provisions of General Conditions of Contract, the provisions in the Special Conditions shall take precedence.

6.2. Where any portion of Special Conditions of Contract is repugnant to or at variance with any provision of the instructions to Bidder and General Conditions of Contract and / or the other documents forming part of the contract then unless a different intention appears the provision of the Special Conditions of Contract shall be deemed to override the provisions of the general conditions of contract and / or the other documents forming part of the contract only to the extent such repugnant/various in the special conditions of contract as are not possible of being reconciled with the provisions in the special conditions of contract as are not possible of being reconciled with the provision with instructions to Bidder or General Conditions of contract and / or the other documents from part of the contract.

6.3. Working drawing shall be according to the drawing given in the Tender document.

6.4. Items mentioned in the BOQ may vary or any changes is needed then it should bring to the attention of BSCDCL.

6.5. Working drawings are given by BSCDCL in tender document; if any deviations found and correction required then it should be brought to BSCDCL for rectification.

6.6 The rates quoted by the bidder will be excluding all taxes same shall be payable as per applicable rates.

6.7 The items which are missing or not defined in the given BOQ in this Tender Document, then the contractor has to submit the items for approval to BSCDCL.

6.8. The contractor has to submit sample of the items defined in BOQ the same to be approved by BSCDCL, before use.

6.9. Internal wiring work should be done as per UADD/MPPW D/CPW D/MPPW D Specifications.

6.10. Quote should be in percentage higher or below on the SOR Rates the same is to quoted in the form of decimal only. For example if contractor wants to quote 5 percent higher then he have to quote 1.05 and if he wants to quote 5 [percent below he have to quote 0.95 in given column of financial bid sheet.

6.11 Instructions for financial bid submission-

- i. Financial Bid format is uploaded in Excel Format in www.mpeproc.gov.in. At the time of financial bidding, bidder is requested to download the file, and update the same.
- ii. For Non SOR items bidder can quote for individual item rates in respective financial bid sheet.
- iii. Bidders are requested to check final figure in the sheet. BSCDCL is not responsible for errors in the financial bid document.
- iv. Bidders are required to upload the updated financial bid in the prescribed excel format in the www.mpeproc.gov.in at the time of final financial bid submission.
- v. Bidder should fill their name in the respective given space of Financial Bid sheet.

SECTION-7

SCOPE OF WORK
AND
TECHNICAL SPECIFICATIONS

SCOPE OF WORK

1. Scope of Work

The scope of the project includes designing, engineering, supply & installation of 24X7 missions critical Control and Command Centre Interiors. As the Command and Control room is a significant place, it is imperative that it is designed properly in terms of Aesthetics, Ergonomics and Functionality. Various aspects should be considered while designing Command and Control room area to create ideal work place, considering physiological aspects such as line of sight and field of vision and cognitive factors such as concentration and perceptivity as per latest ISO ergonomic norms.

The design of systems, equipment and facilities shall reflect human factors requirements including the following:

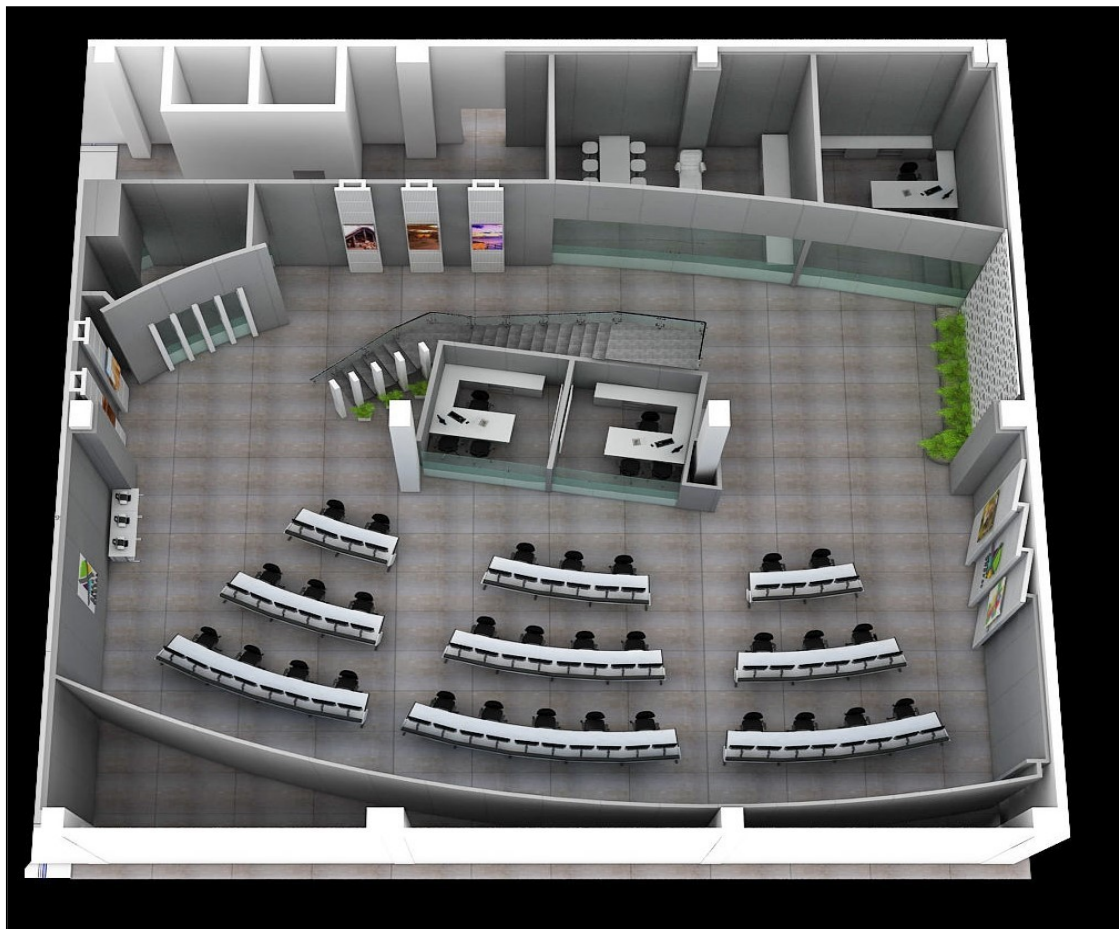
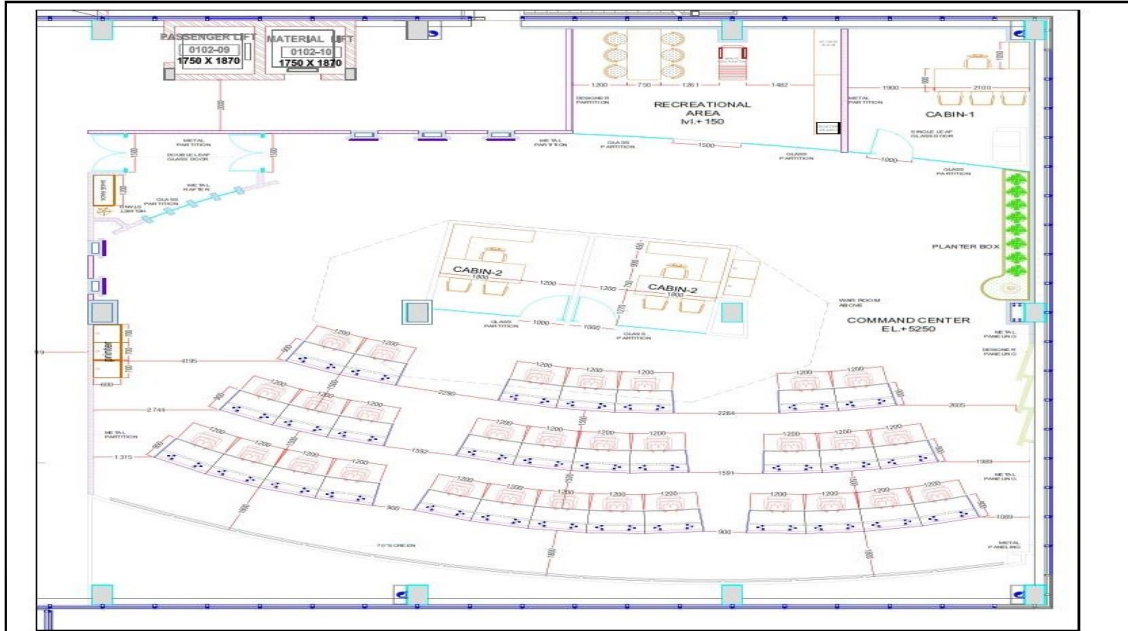
- a. Satisfactory environmental conditions for operator personnel. Including noise, air flow, temperature and humidity, and precautionary measure under uncontrolled conditions (like fire) beyond acceptable limits.
- b. Adequate space for personnel and equipment for the movements and activities they are required to perform during operation and maintenance, under both normal and emergency conditions.
- c. Adequate visual / auditory status information and other communication links between personnel and equipment under normal and emergency conditions.
- d. Adequate illumination for the performance of operation, control, maintenance and training.
- e. The control room shall be built as per the criteria of "Human Factor Engineering" to improvise the efficiency utilization of the operators and provide them Fatigue free working environment.
- f. Objective: -
 - i. Ensure maximum standard of safety.
 - ii. Allow Flexibility
 - iii. Minimize maintenance
 - iv. Improve operator's efficiency & alertness.
- g. Designing, manufacturing, testing, integration etc., all complete, preparation of the related drawings, documents, etc. of the Command and Control room shall be in the supplier's scope. The design shall confirm the requirements & specifications of this bid document.
- h. In broad, the scope of work and supply shall consist of the following parts: -
 - i. Interior Design, engineering of Command and Control room.
 - ii. All related services for supply, installation, testing.
 - iii. Spares & Documentation

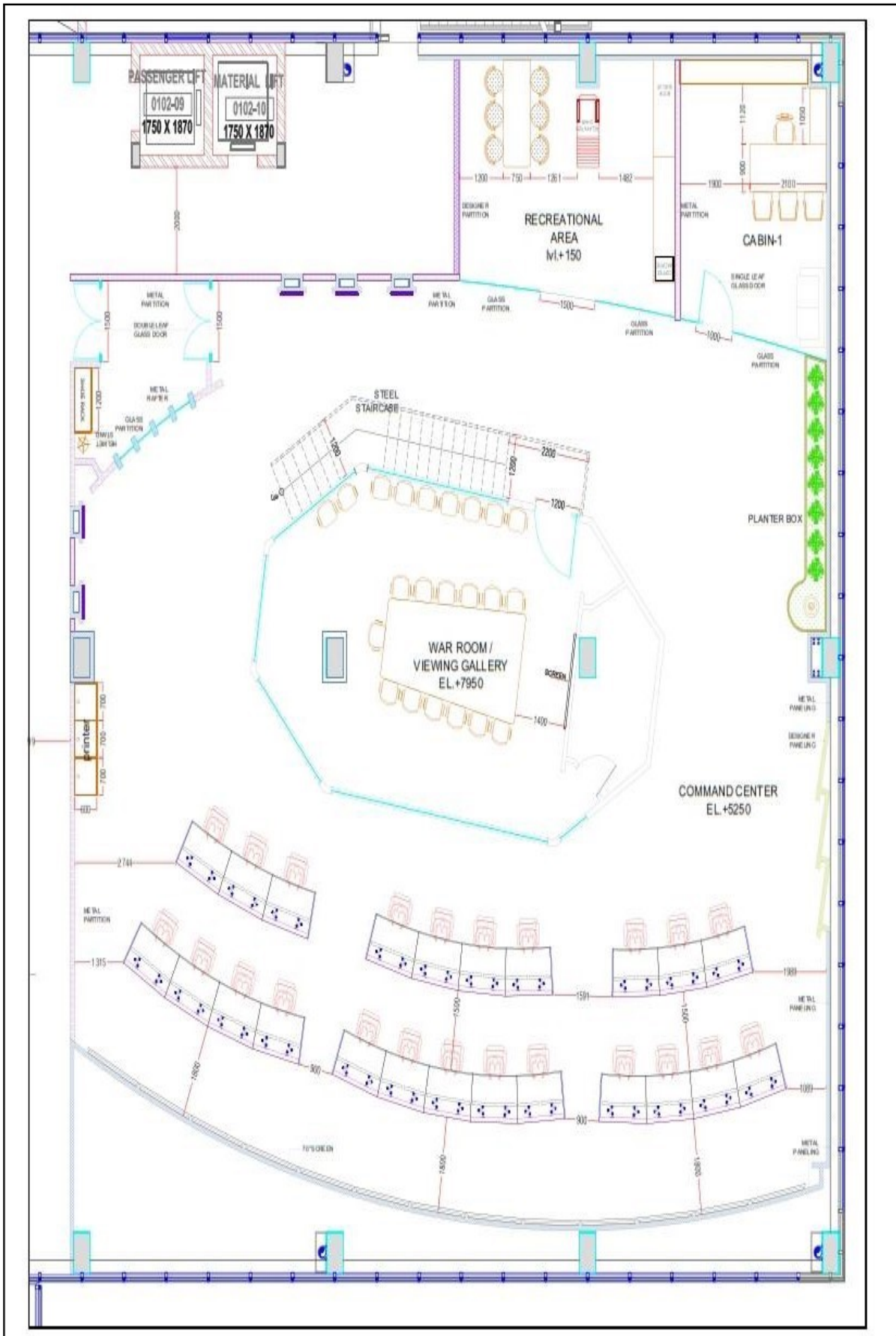
- i. Detailed scope of work and supply shall include but not be limited to the following: -
 - i. Data Collection: Gather all information related to design of the Command and control rooms.
 - ii. Design Proposal: - Submission of various options of Command and Control room layout for client's approval, strictly complying to international ISO ergonomic norms.

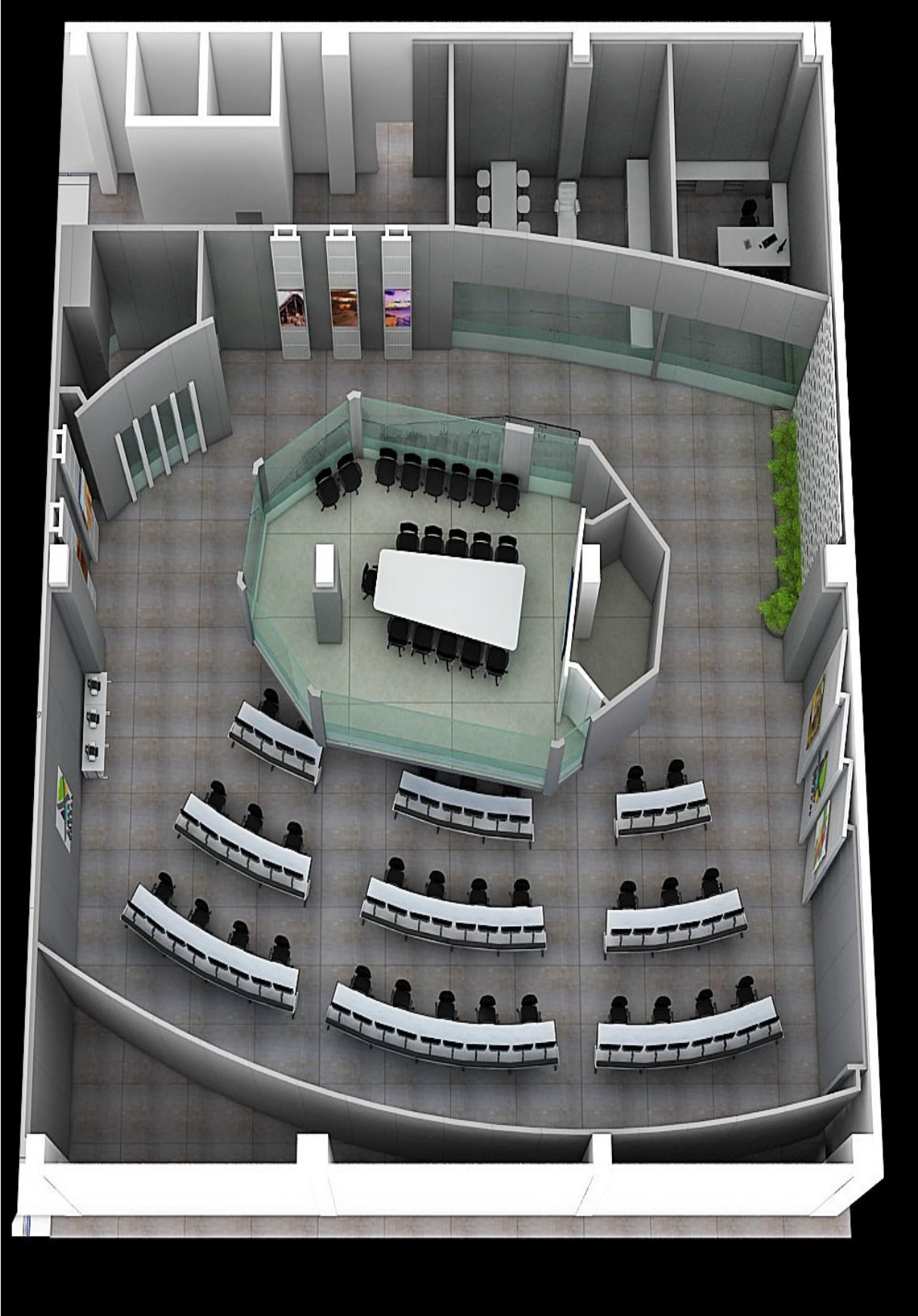
- j. General: -
 - i. The tentative room area shall be provided to the Command and Control room designer to develop the various options.
 - ii. Supply of the product catalogue, technical proposals including but not limited to drawings, documentation, 3D views, color pallets, for the complete solution.
 - iii. Spares: -A list of manufacturer's recommended spares for operation and maintenance shall be provided.
 - iv. Provide commissioning & warranty spares (Contractor shall utilize these spares of all the equipment that may be required during commissioning & warranty period separately).
 - v. Manufacturer shall be responsible for safety and security of the installed items till commissioning and final acceptance by Owner (before start of warranty period).
 - vi. Quality assurance & commissioning of the complete system at site to the complete satisfaction of the Owner/Consultant.

2D Layout of Command & Control Room

Top View of Command & Control Room







View 1 of Command and Control Room



View 2 of Command and Control Room



View 3 (of Conference room from Large Video Screen side) of Command and Control Room with Clear Switchable Panel



View 3a (of Conference room from Large Video Screen side) of Command and Control Room with Opaque Switchable Panel



View 4 (Conference Room) with Clear Switchable Panel



View 4 (Conference Room) with Opaque Switchable Panel



TECHNICAL SPECIFICATIONS

1. Purpose of this Document-

- a. This document is meant for defining the specifications of Control room consoles for INTEGRATION OF HMIs for the Bhopal Smart City Development Corporation Ltd. Command and Control Room, strictly complying to latest ISO ergonomic norms, Sustainable, Functionally Superior, Space age, ahead of time, CPU Free, aesthetically pleasing and to improve operator's well-being, reduce ergonomic risk factors and complying to HFES Norms.
- b. The supplier shall refer country specific anthropomorphic data and ergonomic standards to define the dimensions and equipment layouts. Standard office type, panel, cubicle type walls/partitions, post and open furniture shall be deemed un-acceptable. The ergonomic study to be submitted along with the bid.

2. Overview of Control Desk-

- a. The design of desk shall ensure sufficient knee and foot space as per latest ISO ergonomic norms.
- b. Structure shall be made of 6063T6 grade Extruded Vertical & Horizontal Aluminum profiles (powder coated finish) fastened together with heavy duty MS joineries. Structure should be rigid enough to withstand BIFMA X5.5:2014 tests and desk should not be grouted during the tests. Certificate of BIFMA X5.5 (on all parameter) from an approved and reputed testing agency to be attached. Powder coating to pass Salt spray (FOG) test as per ASTM B 117: 600 hrs. All bolts must be SS to avoid rust and remaining hardware shall be Nickle Plated with RoHS certificate. RoHS certificate to be enclosed by the desk manufacturer.
- c. Work-surface shall be minimum 25 mm thick MDF with High Pressure; scratch resistant Laminate (ANSI/NEMA LD3 certified). Front edge shall be moulded Polyurethane edging on profiled wooden top. Conventional T shape of PU / PVC / PP shall not be accepted as they can be pulled out manually. Desk manufacturer to be FSC certified.
- d. It is mandatory that the Seismic Zone maximum 3 qualified console be certified from CPRI or any government authorized agency.
- e. Equipment Mounting: - The control desk shall house KVM equipment's/extendere, Ethernet switches, Power Distribution Unit. All the cables to be taken into the cabinet through desk legs to ensure completely hidden wire management. Desk leg shall have snap fit covers on the sides to access the wiring.
- f. Aluminium die-casted articulating Monitor arm shall be able to mount monitors complying VESA standards 75 x 75, 100 x 100, 200 x 100 & 200x200 mm. Arm shall allow rotate, tilt and raise the monitors a quick and easy manner. These arms shall be fixed on modular rear wall with help of MS Pole (height 455mm). The rear wall shall be made up of 6063T6 grade Extruded Aluminium. The wall shall be single piece per module and shall have min weight of 5 kg per meter. The wall shall be designed & connected to other modules' wall in such a way that no joints or gaps are visible in the entire width of the console. It should have linear slots running throughout the length to accept modular components. No screws should be visible when joining table top to the Slat wall.
- g. Shutters: The shutters shall be made of Preformed Textured Hot dip galvanized strips and sheets of low carbon steel coated on one side with rigid polyvinylchloride (PVC) film and on the other side a coating based on cross linkable polyester resins (sheet thickness 0.6mm & PVC Coating 0.15mm). Shutters should be supplied with high quality Foam Filter to avoid dust and dirt to enter the equipment cabinet. The shutter tile

- i. Design Proposal: - Submission of various options of control desk layout for client's approval, strictly complying with latest ISO ergonomic norms. Traditional bulky box type control desk shall be rejected.

4. Mandatory Submittals:

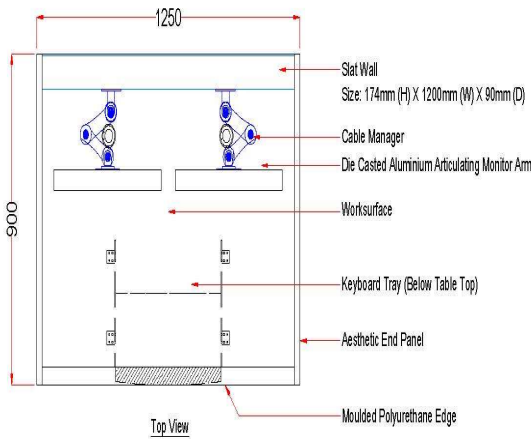
- a. Certificate for ISO 9001:2015.
- b. FSC: Forest Stewardship Council Certified manufacturer from a reputed certifying agency.
- c. To prove supplier's seriousness in the business; printed Catalogues of quoted furniture to be furnished.
- d. ASTM E-84 certificate for shutter tile.
- e. Consoles to be qualified for Seismic Zone 4 (or better).
- f. Console should be RoHS Certified from Intertek/ UL.
- g. Design Criteria: -
 - i. Table top front end should be Moulded Polyurethane edge (minimum 50mm wide) on the profiled wooden core and must not be inserted or glued. Consoles must be of modular design, facilitating future equipment retrofits and full reconfigurations without requiring any major modification to the structure.
 - i.Product Specific Mandatory Requirement: ANSI BIFMA X5.5: 2014 Certified console (from an agency authorised by BIFMA and on all parameters).
 - ii.Test certification for ASTM E84 from UL; for the surface burning characteristics of products and materials. Test must reference the actual assembled components for wood-core panels including core, laminates, edging.
 - iii.Raw-material supplier data alone is not acceptable.
- h. Proven Track Record: -

The desk manufacturer or supplier Should have supplied Minimum One desk with BIFMA X5.5 (all parameters) certified desk having scratch resistant table top with Moulded PU nosing to any one Government/PSU (through system integrator or end user) in past three years.

The desk manufacturer should have executed order(s) with a minimum 150 CPU free modules/consoles/desks/operator station at single location with scratch resistant laminate and moulded Polyurethane edging.

Supporting documents to be provided for the same along with the bid.

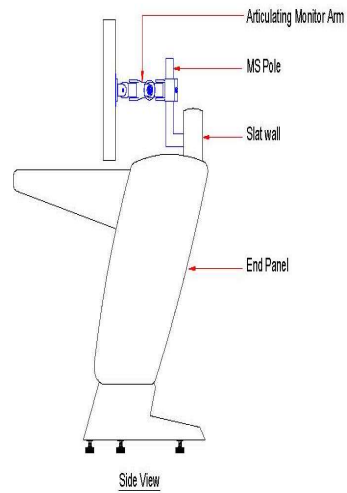
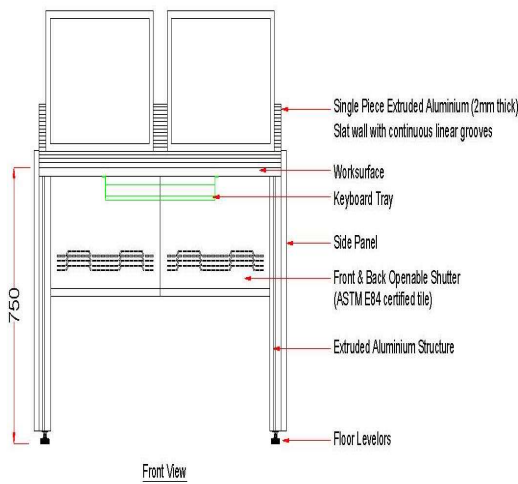
TWO MONITOR CONSOLE

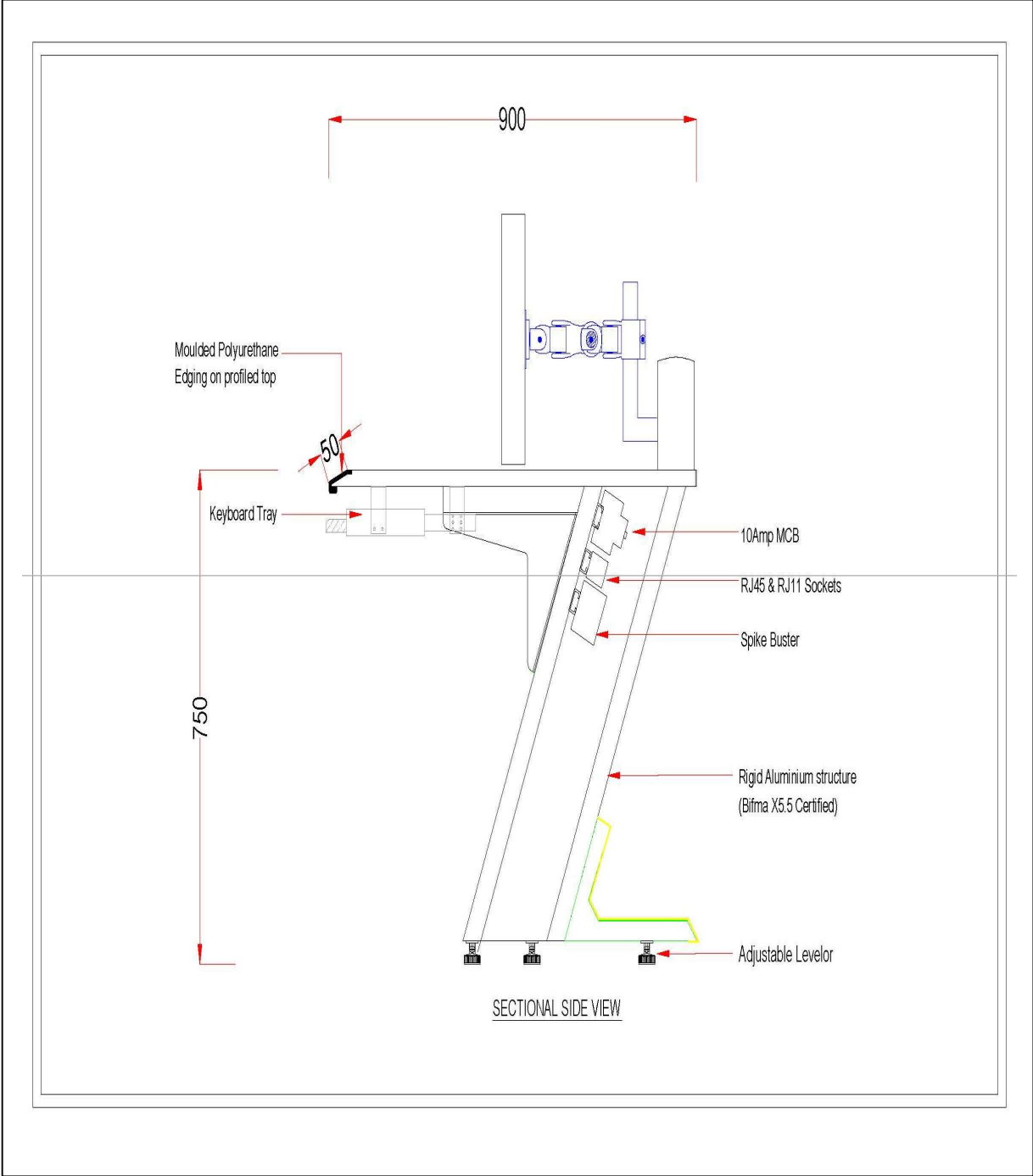


S. No.	Item	Material	Finish
1	Worksurface	25mm MDF	Laminate
2	Top Laminate	1mm HPL	Organic Cotton
3	Structure	Aluminium	Black Powder Coating
4	Metal Items	CRCA	Black Powder Coating
5	Front & Back Shutter	G.I.	Rigid PVC white Shade
6	Front Edge	Moulded Poly Urethane Edge	Black

Bill of Material

S. No.	Description	Make	Qty.
1	10Amp MCBs	Siemens	01 No.
2	Spike Buster	Elcom	01 No.
3	RJ45 & RJ11 Sockets	Anchor	01 No.





2. Acoustic Requirements of Control room

- a. Command and Control room being dead zone in acoustical terms, threshold should be lower than the normal.
- b. Use of Acoustics and psychoacoustics measurements are must. Vendor to highlight the same in drawings.
- c. Materials which define acoustics; it's the detailing which ensures controlled reverberations & resonances and reflections.
- d. Selection of fire retardant/rated material is must.

3. **Mandatory Requirement:**

The project demands for a contemporary, aesthetically appealing, ergonomically designed, safe and 24X7 working facility. Conventional wooden cladding, painting, gypsum, POP ceilings (for Command and Control Room area) shall not be accepted.

This facility being the first of its kind, scale & prestige it is mandatory for the bidder to provide Designer Command and Control interiors without compromising on the safety and functionality of the facility. As a concern towards the environment; materials having the adverse impact on the environment and nature shall not be accepted. Conventional office designers shall not be accepted.

a. **Submittals**

- i. Ergonomic compliance report for control room layout as per international ISO ergonomic norms to be submitted along with the bid.
- ii. Manufacturing Unit/Capability: If asked, supplier to arrange factory and product inspection before placement of order, to ensure that the vendor is capable of in-house production of the ordered goods.
- iii. To prove supplier's seriousness in the business; printed Catalogues of products to be furnished.

b. **Warranty:**

- Five year's warranty against any manufacturing defect on Command and Control Room design including but not limited to Floorings, Custom designer metal ceilings, wall claddings and doors.

c. **Design Criteria: -**

- The ceiling, wall paneling and partition must be of modular design, facilitating future equipment retrofits and full reconfigurations without requiring any major modification to the structure.

d. **Product Specific Mandatory Requirement**

- i. Copy of Test certification for ASTM E84 (from UL) for the surface burning characteristics of wall panelling tiles and ceiling tiles to be submitted along with the bid. This is mandatory requirement from Fire safety point of view.
- ii. Raw-material supplier data alone is not acceptable.
- e. Quality Criteria: -
 - i. To ensure uniformity, consistency & quality in final product the Command & Control manufacturer should have In-house Powder Coating Plant, metal manufacturing and wood processing plant.-

4. MODULAR PANELING



- a. Straight Metal Paneling
 - i. Panel should comprise of hexagonal perforation for making the cladding and partitions acoustically sound. Min 20% panels shall be perforated or as specified by the consultant.
 - ii. There should be possibility of wide variety of colors and images to be used on the wall elements to give the aesthetic and state of the art look to the control room.
 - iii. Panel design to support proper LVS integration.
 - iv. Gluing, screwing, ACP, Laminates are not allowed. Gypsum and POP shall not be accepted on vertical surfaces.
 - v. Panel design should ensure that when the tiles need to be removed for service maintenance of Lighting & AC ducts & itself cleaning, the risk of tile damage is minimized.
 - vi. Structure should allow uninterrupted flow of wires/cable/tubes of max. dia 25mm.
 - vii. To achieve better acoustics a combination of metal panelling and fabric tiles (fire retardant fabric) shall be used over and above height of 3 meters.
- viii. Design & Material Specification for Paneling

1. Factory made removable type self inter lockable metal panels of Preformed textured Hot dip galvanized strips and sheets of low carbon steel coated on one side with rigid polyvinylchloride (PVC) film and on the other side a coating based on cross linkable polyester resins (sheet thickness 0.6mm & PVC Coating 0.15mm). Make shall comprise of specially designed combination of perforated and non-perforated panels through CNC laser Cutting, bending & punching. Panel shall be of 0.75mm thick galvanized metal of approved color. Panels shall be designed to achieve shape and design as per the design consultant. Panels shall be fixed using hook fitting on structure. Overall system thickness for paneling shall be 70mm to 85mm and for partition shall be 85mm to 110mm.
2. As per design panel shall comprise of hexagonal perforation for making paneling and partitions acoustically sound. Acoustic grade fire retardant fabric (min 1.5mm thick) will be fixed at some parts of the control room.
3. Panel shall be design in such a manner that it takes care of undulation of civil walls and gives perfect flat surface finish and compile easy service & maintenance procedure.

ix. Design:

1. The cladding panels shall be made up of combination of two sheets locked and riveted together and polystyrene shall be used as infill to achieve strength and acoustics. The front tile (PVC pre-coated metal sheet) shall be perforated/ non-perforated as per the design requirement and the back tile (Powder coated 0.6mm GI sheet) shall be designed in such a manner that it fits on the back portion of the front tile. Once the tiles are fitted together then these will be manually riveted. These tiles shall be bend through CNC, machine punched & laser Cut to achieve perfect accuracy.
2. Structure Shall be made from heavy duty powder coated modular steel frame (minimum sheet thickness 1 to 1.6mm) and shall allow uninterrupted flow of wires/cable/tubes of max. dia. 25mm.
3. Structure Shall be securely grouted from wall, roof and floor. It shall be made up of 1-1.6mm thick vertical Slotted rolled C sections (Upright) and horizontal rolled 'C' connectors. Grid of desired dimension shall be formed by Vertical and horizontal sections having 50mm pitch.

x. Surface Finish:

1. For Panels:
 - a) Front Panel: PVC pre-coated GI sheet (sheet thickness: 0.6mm and PVC coating: 0.15mm)
 - b) Back Cover: Powder coated GI sheet. (sheet thickness: 0.6mm with powder coating:)
2. For Structure:

a. Powder coated sheet. (sheet thickness: 1.0mm to 1.6mm with powder coating)

The metal sheet shall have possibility of being formed mechanically per the specific needs of the project.

Panel shall provide better thermal, electrical insulation as compared to normal GI panels. It shall be non-reflective/glare free and be eligible for food contact.

xi. Material Selection:

1. Available Width- 300mm to 1200mm (in multiples of 150mm).
2. Available Height- 150mm to 750mm (in multiples of 150mm).
3. Thickness- 10mm to 15mm for perforated tiles with acoustic fleece without back cover
4. 25mm to 30mm for non-perforated tiles with back covers
5. PVC pre-coated sheet:
 - a. Fire rating and Low flame spread: EN ISO 11925-2, EN 13823 and ASTM E-84
 - b. Food grade: EU10/2011
6. Core material (compressed polystyrene):
 - a. Acoustic test: 9301/ ISO: 140/ASTM 413, ASTM C 578.
7. Powder coating
 - a. Adhesion test: EN ISO 2409 (2 mm)
 - b. Impact resistance test: ASTM D 2794 (5/9' ball)
 - c. Flexibility test: EN ISO 1519
 - d. Salt spray test: 600 hrs.
 - e. Resistance to humid atmosphere test: DIN 50017.

xii. Component Specification:

1. Floor Mounting: -
 - a. 3mm thick C channels shall be welded together to form a 'I' section having minimum height of 150mm. This I section shall be welded on 3mm thick MS grouting plate.
 - b. This assembly shall be grouted on the floor with the help of M10 Anchor Fasteners.
 - c. These Floor Mountings shall become the base support to vertical uprights spaced at a centre to centre distance of 1200mm maximum.
 - d. Contractor must ensure proper marking and levelling before proceeding with any floor grouting.
2. C Section (Upright) fixing: -

- a. 56 mm wide Slotted rolled C section (UPRIGHT) (1 to 1.6 mm thick CRCA). Maximum single piece Length shall not exceed 2700mm.
- b. All sections will be dual slotted with 50 mm pitch.
- c. These Uprights shall be mounted over the floor mountings and shall be connected by C connectors made up of 1.0mm to 1.6mm thick cold rolled 'C' sections.
- d. The installation to be carried out with Uprights spaced at 1200 mm (centre to centre) securely fixed to the floor slab by means floor mountings.
- e. The uprights shall be firmly held with L shaped wall mounts made up of 2 mm thick MS sheet duly powder coated. One portion of L mount shall be grouted with wall and other will be having a minimum slot length of 75mm.
- f. The L clamp and the upright will be bolted together with M6 bolts.

3. End Cap

- a. 0.6mm to 0.75mm thick C shaped tile similar to panel tile, shall be bolted on the extreme end Uprights to hide the grid structure.

4. Panel:

- a. The panels shall be hooked on the uprights.
- b. Panels shall have integrated hooks (which shall cut and bend on high precision laser machines).
- c. The panels shall have minimum gap of 5mm between two tiles (on vertical and horizontal edges) so that the tiles can be replaced and installed easily.
- d. The hooks of the Panels shall have a length of 20mm (for the upper hook) and 10 mm (for the bottom hook). So that these panels are firmly held on the uprights.
- e. The panel shall have HOOK in arrangement (With gravity lock).

5. Corner Cap:

- a. On extremes ends of control room the wall connector (L- profile) shall be fixed on the perimeter walls. This L-section shall be snap fitted and then bolted to the walls.

6. Door Profile:

- a. Door frame shall be fixed with these profiles only to have proper integration of doors with the overall system.

xiii. Feature:

- 1. Raw material for tile & powder coating should not affect environment, vendor to provide necessary test certificate.
- 2. Color should not fade over 10 years.

3. No sagging
4. Easy and quick installation
5. Low cleaning effort
6. Vendor to demonstrate one portion at wall paneling & ceiling at their premises before dismantling & shipping to site. In short, a FAT (Factory acceptance test) to be carried out at vendors works for ceiling & paneling.
7. 100 % modular design. At site, no cutting, chipping work is allowed.
8. The tile shall be bend resistant

5. MODULAR PARTITION

a. Straight Metal Partition–

All the properties and material of construction shall be like straight Metal paneling but the partition shall have metal tiles on either side of the frame.

b. Curvilinear Metal Partition:-

All the properties and material of construction shall be like Metal paneling/partition but the front tiles shall be having perfect curve to meet the aesthetical requirement of the Control room and shall allow easy installation of the LVS/Screens on it.



c. GLASS PARTITION

- i. Full glass wall partitions will be made of 12mm Toughened laminated glass with frame-less structure. The glass partition shall be supported by 200-600mm high Modular metal partition (having the same finish as that of wall cladding) from the floor. Proper structure shall be made to ensure the fixing of glass from RCC slab above false ceiling and flooring.
- ii. Straight and vertical structural members shall not be visible. Safety film shall be applied on the glass to avoid shattering. Glass shall be fitted on anodized extrusion with tool less technology and having a provision for replacing glass with perforated sheet/acoustic tile by removing the glass.

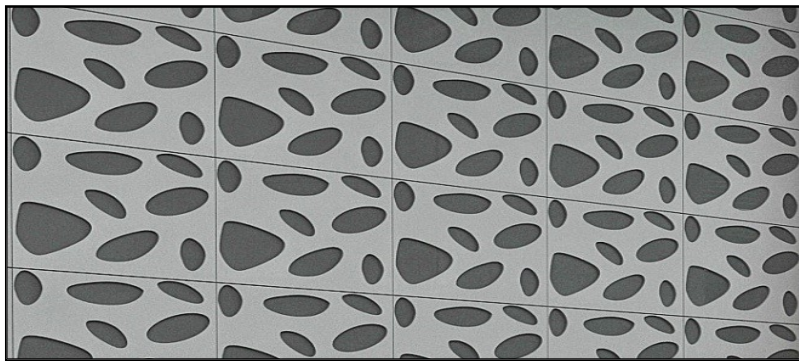
NOTE: - The nature of installation should be replaceable, expandable and flexible to cater the future expansion/technical up-gradation

d. GLASS PANE WITH SWITCHABLE SOLUTION:-

- i. Full glass wall partitions will be made of 12mm Toughened laminated glass with frame-less structure. The glass partition shall be supported by 200-600mm high Modular metal partition (having the same finish as that of wall cladding) from the floor. This pane shall have switchable feature Opaque and Clear as per the user's need.

6. Lattice Paneling

- a. All the properties shall remain like Metal paneling. The tile size shall be 2'X2' or 1M X 1M. The front tile shall have laser cut designs (as per approval) and another tile shall be fitted into it to have Highlighter view.
 - i. The tiles will be having cut-outs in such a way that when the tiles are rotated by 90 degrees the design pattern of the entire wall shall be changed. Using the same tiles and different orientations we will have multiple design possibilities.
 - ii. The aim is to provide a contemporary look to the CCR.
 - iii. It shall be a tool less & screw less fixing.



7. DOORS& WINDOWS

a. Metallic Door

- i. With door spring and locking arrangements and both way handle. Prepare with rigid thermo fused film metal panels. Specification: 0.6mm thick Metal panel sheets, cavity filled with glass wool insulation of density 24kg/cum in roll form of make inside adequate quantity. Material of the partition and that of metal door will remain the same.

b. Metal door with Toughened Glass Vision Panel: -

i. The door shall have 50-100mm frame (made of same material as that of wall paneling /partition) and shall have 12mm thick glass pane in between. 12mm thick tempered clear glass door with door spring and locking arrangements and both way handle and patch fittings.

1. Glass Properties: Safety (tempered): when broken, must split into tiny harmless pieces.

8. False Ceiling:



a. Designer Acoustic Metal False ceiling

i. Factory made acoustic modular metal false ceiling of powder coated planks/baffles. Panels shall be designed to achieve shape and design as per the design consultant. The ceiling shall be designed to enhance visual feel, with provision for easy installation and maintenance, integrated lighting and scope for integration of building services like HVAC and fire detection/ fighting system.

b. Design:

- i. The ceiling panels shall be made up of powder coated metal panels to achieve strength. These planks shall be bend through CNC & laser Cut to achieve perfect accuracy.
- ii. Structure Shall be made from heavy duty powder coated modular steel frame (minimum sheet thickness 1 to 1.6mm). It Shall be securely grouted from roof with help of anchor fastener and GI self-threaded rods. It shall be formed with the help of slotted rolled sections (stiffener) with help of M6 cage nut and bolts.
- iii. Light fitting & AC Diffuser can be defined as per the LUX requirement.

1. Surface Finish:

- a. For Panels: Powder coated GI sheet. (sheet thickness: 0.6mm with powder coating:)
- b. For Structure: Powder coated sheet. (sheet thickness: 1.0mm to 1.6mm with powder coating)
- iv. The metal sheet shall have possibility of being formed mechanically per the specific needs of the project. The powder coating shall be able to undergo stretching up to 100% and therefor follow (adhere to) bend with the steel in all its deformation.
- v. In some parts of the control room; fire rated acoustical fleece to be pasted on the perforated metal ceiling planks to achieve better acoustic levels. Metal modular false ceiling is having Sound absorption coefficient (NRC) value 0.30 per IS:8225-1987, ISO: 354-1985 and ASTM 423-90.

1. Material Testing/Certification:

a. Powder coating

- i. Adhesion test: EN ISO 2409 (2 mm)
- ii. Impact resistance test: ASTM D 2794 (5/9' ball)
- iii. flexibility test: EN ISO 1519
- iv. Salt spry test: 600 hrs.
- v. Resistance to humid atmosphere test: DIN 50017.

c. General Description Powder Coated Baffle False ceiling

- i. The baffles shall be made up of powder coated GI/MS sheet. These baffle planks shall be bend through CNC to have dimensions as 100X25mm OR 80X30mm OR 225X50mm as per the architect's approval.
- ii. Centre to Centre distance shall be minimum 150 mm.
- iii. Specifications (Finish and component details):
 - a. CEILING Baffle tile: minimum 0.7 mm thick powder coated sheet.
 - b. Carrier made of 0.50 mm GI, powder coated to matching baffle colour or black as directed by the architect. Ceiling to have arrangement to fix, hang and lock the baffles of required sizes and at required intervals. the size of punched carrier would be 35x20x35mm bent channel with holes for suspension and fixing secondary channel.
 - c. The baffles top edge will have a flange of 5mm to fix in the carrier profile.
 - d. Mother C Chanel: 1.6 mm Thick GI Sheet with Laser cut profiles.
 - e. Suspension: The carriers would be placed at every 1200mm (maximum) and suspended by means of a secondary angle, channel fixed to the carrier at every 900 to 1200 mm and this secondary member in turn would be suspended by means of a 3 mm wire and level adjustment butterfly clip fixed to the slab by means of a 6 mm diam., dash fastener.
 - f. Top Clamp: 1.0 mm Thick GI Sheet for holding the threaded rod.
 - g. Tile Top clamp: minimum 1.0 mm thick GI Sheet snap fit clamp.
 - h. End Cap: minimum 0.7 mm thick GI end cap

- i. Finish: Epoxy Powder coated.
- j. Color: As per approval
- k. Entire structure will be in powder coated MS.
- l. Metal Strip where baffle planks will be hanged should be sleek & sturdy.

d. Calcium Silicate Board ceiling on the periphery of the control room

- i. Plain Calcium Silicate Acoustic Boards for false ceiling with 12mm Approx. thick, Structure for underside of suspended grid formed of GI perimeter channels. Wood screws and metal expansion raw plugs for fixing with wall. Plastic emulsion paint of approved make and shade for finishing surface of Calcium Silicate Boards.
- ii. General Specification of Calcium Silicate Board: this board is manufactured from a mixture of Portland cement, fine silica, special cellulose fibers and selected fillers to impart durability, toughness, fire and moisture resistance.
- iii. Expansion after expose to the water for 24 Hr.: 0.12%, Noise Resistance: B38, Water absorption by Weight: 34%, Fire resistance: BS 476 incombustible A1 Class.

9. Lighting and Illumination of Control Room.

a. LED dynamic lights

- i. Brief:- LED colour changing lights. The lights shall be available in flat panels and shall be dimmable. These shall be designed and developed with slim shape for stylish look. The product shall have better colour rendering index for interior illumination.
- ii. In LED color changing lights shall have three basic colours like cool white, warm white and neutral white. The user shall be able to tune to any colour temperature between 2700 to 6500 Kelvin. The master controller shall be able to control upto 32 luminaires. The system shall be expandable, flexible system and user friendly to change the color/dimming as per pre-decided schedule. The LED colour changing lights shall have uniform light distribution without any spots on surface of panel, to make it highly luminous.
- iii. Features: -
 - 1. Features of Dynamic Lighting
 - a) Co-related colour temperature- Warm white(2700 K) to Cool White(6500 K)
 - b) CRI >80
 - c) Power Factor >0.90
 - d) Aesthetically designed aluminium die-cast enclosures
 - e) Short circuit & open circuit protection on driver
 - f) Highly efficient constant current LED drivers
 - g) Ideal replacement for traditional PAR/CFL lamp
 - h) Up to 80% energy saving.

- i) LED's life >40,000 hrs.

2. Features of Dynamic Controller

- a) PWM output current : 700/350/180mA
- b) DALI Digital control input, Dimming control LED module
- c) Addressing output channel
- d) Support Touch DIM function and can be dimmed manually
- e) Dimming range is from 0-100% (LED will start from 1%)
- f) Used for DC Power supply
- g) Over-temperature protection
- h) Over-temperature protection
- i) Single channel 9-40 VDC output.

Make : Zumtobel/OSRAM/Pyrotech/Philips

I. LED based Strip Light

Make	:	Zumtobel/OSRAM/Philips/Wipro
Light source	:	LED
Lumen output	:	840 lm/Mtr.
Light color	:	3000K/6000K
Power consumption	:	9.8 W/Mtr.
Voltage	:	12V AC 50Hz
Optics	:	Sand-blasted matt finish reflector
Color	:	White
Lifetime	:	40000 burning hrs. (At L70)

10. WIRING FOR CEILING LIGHT

- i. Wiring for ceiling lights: For ceiling wiring inter looping will be done and switches will be provided.
- ii. The system of wiring shall consist of PVC insulated copper conductor stranded flexible FRLS wires of 1100 volts grade of insulation, in metallic conduits for all exposed wiring and PVC/ metallic conduits for all concealed wiring. Minimum size of copper conductor shall be 1.5 sq. mm for lighting and 2.5 sqmm for power. Color code shall be maintained for the entire wiring installation that is Red/Yellow/Blue (or as per Local Standards) for the all single phases, Black for neutral and Green for earthing.
- iii. Appropriate ferrule will be used in both the side (LDB Side & Switch's Side)
- iv. Note – Each Light Fixture will have 3 Wires: Phase, Neutral & Earth individually & If there is a need of another wire for Dimming/Dynamic Lighting Purpose then it will add on.

v. SWITCHES & SOCKETS

- a. Compliance to stringent quality norms, Dual shutter mechanism for easy & better fitment Wide & flat switch knob for easy operation. FR grade polycarbonate with high impact resistance, shock proof & UV rays stabilized.

vi. MCBs

- a. For the control and protection of low voltage installations against overload and short circuits.
- b. Ripping characteristic: C Curve – 5 to 10 x In
- c. Rated at 25°C to -50°C
- d. Isolation function
- e. Double entry points, separate bus bar entry, open mouthed terminal and lift clamps.

11. Acoustic Laminate Flooring in other areas: -

Acoustic flooring (shall reduce impact sound by 14dB (ISO 717-2)). It shall be twinlayer linoleum built up from 2 mm acoustic and a 2 mm Corkment backing. Flooring shall be decorative type of approved shade, pattern, texture and design and of approved manufacturer. Dimensions shall be as per the final approved design and site requirement. Flooring shall be laid over concrete floor with laying compound strictly as per manufacturer's specification.

For fixing details please refer the procedure mentioned below.

- a) Areas to receive material should be clean, fully enclosed and weather tight with the permanent HVAC in operation. A minimum temperature 68° F (20ature 68anent HVAC in operation. A minimum cleaning prior to beginning the installation, maintained during the installation, and for at least seven days following the installation.
- b) Installation should not begin until the work of all other trades has been completed, especially overhead trades.
- c) Areas to receive material shall be adequately lighted to allow for proper inspection of the substrate, installation, seaming and for final inspection.
- d) Concrete substrates shall be structurally sound, rigid, smooth, flat, clean, and permanently dry. The concrete surface must be free of all foreign materials including, but not limited to, dust, paint, grease, oils, and solvents, curing and hardening compounds, sealers, asphalt and old adhesive residue.
- e) Concrete substrates shall have a minimum compressive strength of 3,000 psi and a dry density of at least 150 pounds per cubic foot.
- f) Concrete substrates on or below grade are required to have an effective moisture vapor retarder installed directly below the slab. The vapor retarder shall be puncture and tear resistant with a minimum thickness of 0.010" and a presence of 0.1 y. (Refer to ASTM E 1745.).
- g) Imperfections such as chips, spills, cracks, and joints must be repaired using suitable patching and levelling materials. Always follow the manufacturer's

recommendations for the use and application of these products. Refer to the Substrate Preparation section of this guide for additional information.

- h) Use material from the same batch/dye lot.
- i) Install rolls in sequence by roll number and cuts from each individual roll in consecutive order.
- j) Do Not Reverse sheets for seaming.
- k) Install one sheet at a time, making sure to place the material into wet adhesive.
- l) Remove fresh adhesive residue immediately with a clean white damp cloth. Dried adhesive can be removed with a clean white cloth and mineral spirits.
- m) Linoleum will expand slightly in the width and shrink slightly in the length when placed into the adhesive. Proper installation procedures will compensate for this characteristic.
- n) Measure the area to be installed and determine the direction in which the material will be installed and seam placement. Seams must be a minimum of 6" away from underlayment and concrete joints, saw cuts, etc.
- o) Cut the required length for the first sheet off the roll, adding approximately 3" - 6" for extra trimming.
- p) The factory edge must be trimmed to produce a clean edge suitable for seaming.
- q) Position the straight edge approximately 1/2" - 3/4" from the factory edge and score the material using the utility knife along the straight edge. After scoring, complete the cut using a hooked blade knife following the score line. Hold the blade at a slight angle to the surface of the material so the seam edge will have a slight undercut.
- r) When ready to adhere the first sheet, lap the material back about halfway from one end.
- s) Begin spreading adhesive at the lap point and work back toward the wall. Spread the adhesive from the side wall up to the pencil line at the seam edge. For longer sheets that have not yet been trimmed to fit at the top, stop spreading the adhesive approximately 4' - 6' from the wall to allow for final fitting at the ends after the centre portion has been adhered.

Note: Not spreading adhesive approximately 4' - 6' at the end of each sheet allows any shrinkage of the material to occur within the centre of the sheet, ensuring a tight fit and seam at the end of the sheet.

- t) When installing acoustic laminate and linoleum with jute backing on porous substrates, no open time is necessary before placing the flooring material into the adhesive. For non-porous substrates, a short open time may be necessary in order to allow the adhesive to develop body before placing the flooring material into the adhesive, but DO NOT ALLOW THE ADHESIVE TO DRY. The flooring material MUST always be placed into wet adhesive and rolled immediately. Check for adhesive transfer frequently. There must be a wet transfer of adhesive to the material backing to achieve a secure bond.

- u) After adhering, immediately roll the flooring in both directions using a 100-pound roller. Roll first across the width and then along the length so that any trapped air pockets will be removed.
- v) The flooring material must also remain in contact with the adhesive while the adhesive is drying and curing.
- w) Adequate relaxing should enable the material to remain in contact with the adhesive, but if necessary, weight should be applied after rolling to ensure that the flooring material remains in full contact with the adhesive while the adhesive is drying.

Note: To ensure proper transfer of adhesive to the material backing at walls and fixtures, roll the edges of the material with a steel steam roller.

GENERAL NOTES: -

1. The Command and Control room paneling and partition to have minimum 10% thermo-fused printed tiles (with similar material of construction as that of paneling and partition tiles) to print local art of state and increase the association of the facility with the state. Design will be selected by the.
2. Warranty (for the entire CCR):
 - a. Ten years' warrantee on structural stability.
 - b. Five years' warrantee against any manufacturing defect on all modular/removable system.
 - c. Two year's warrantee on all the consumables like Ceiling light, MCB's etc.



Technical Specification For Interior Part (Annexure- A)			Unit
S.No.		Description	
		Console / Furniture	
1		Modular Control Desk for 10 monitors & 05 operators. 1. Desktop made of 25mm MDF with Wilsonart laminate. 2. Structure: Powder Coated Aluminium Sturdy Structure and extreme side Aesthetic Legs 3. Shutters: 1.6mm thick CRCA with powder coated finish. 4. Flexible Slat wall Mounting Monitor Arms. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Edge Treatment: moulded Poly Urethane table top front Edge.	Nos
2		Modular Control Desk for 08 monitors & 04 operators. 1. Desktop made of 25mm MDF with Wilsonart laminate. 2. Structure: Powder Coated Aluminium Sturdy Structure and extreme side Aesthetic Legs 3. Shutters: 1.6mm thick CRCA with powder coated finish. 4. Flexible Slat wall Mounting Monitor Arms. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Edge Treatment: moulded Poly Urethane table top front Edge.	Nos
3		Modular Control Desk for 06 monitors & 03 operators. 1. Desktop made of 25mm MDF with Wilsonart laminate. 2. Structure: Powder Coated Aluminium Sturdy Structure and extreme side Aesthetic Legs 3. Shutters: 1.6mm thick CRCA with powder coated finish. 4. Flexible Slat wall Mounting Monitor Arms. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Edge Treatment: moulded Poly Urethane table top front Edge.	Nos

4	<p>Modular Control Desk for 04 monitors & 02 operators.</p> <ol style="list-style-type: none"> 1. Desktop made of 25mm MDF with Wilsonart laminate. 2. Structure: Powder Coated Aluminium Sturdy Structure and extreme side Aesthetic Legs 3. Shutters: 1.6mm thick CRCA with powder coated finish. 4. Flexible Slat wall Mounting Monitor Arms. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Edge Treatment: moulded Poly Urethane table top front Edge. 	Nos
5	<p>Printer Table for A4 size printer:-</p> <ol style="list-style-type: none"> 1. Table top made of 25mm MDF. 2. Extruded aluminum profile with 2 mm thk. Vertical support. 3. Proper Cable tray for flow of wire. <p>Size: 750mm (H) X 700mm (W) X 600mm (D)</p>	Nos
6	<p>Manager Table:</p> <ol style="list-style-type: none"> 1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 2. Leg: Ergonomically designed and matching with the open office concept. The leg is made out of specially designed aluminum extruded section with approved finish. The Extrusions shall be duly powder coated with 40+ micron over all surfaces. The top part of leg is having die casted specially designed aluminum connector to connect with structure. 3. Beam: Beam is made of heavy duty Extruded Horizontal Aluminum. The Extrusions is duly powder coated with 40+ micron over all surfaces. The connector is aluminum die casted specially designed to connect with structure. 4. Connector: Pipe and structure are interconnected with Aluminum Die Casted. 5. Modesty Panel: made up of MS Powder Coated Finish. 6. Side and Back Runner: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. <p>Approx. Dimensions: 1800(W) X 750(D) X 750(H) 900(W) X 450(D) X 750(H) 1800(W) X 450(D) X 750(H)</p>	Nos
7	<p>Manager Table:</p> <ol style="list-style-type: none"> 1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 2. Leg: Ergonomically designed and matching with the open office concept. The leg is made out of specially designed aluminum extruded section with approved finish. The Extrusions shall be duly powder coated with 40+ micron over all surfaces. The top part of leg is having die casted specially designed aluminum connector to connect with structure. 3. Beam: Beam is made of heavy duty Extruded Horizontal Aluminum. The Extrusions is duly powder coated with 40+ micron over all surfaces. The connector is aluminum die casted specially designed to connect with structure. 4. Connector: Pipe and structure are interconnected with Aluminum Die Casted. 5. Modesty Panel: made up of MS Powder Coated Finish. 6. Side and Back Runner: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. <p>Approx. Dimensions: 2100(W) X 750(D) X 750(H) 1050(W) X 450(D) X 750(H) 3400(W) X 450(D) X 750(H)</p>	Nos
8	<p>Conference Table</p> <ol style="list-style-type: none"> 1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 2. Gable End: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 3. Modesty Panel: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 4. Accessories: Flap 	Nos
9	<p>Pantry Table</p> <ol style="list-style-type: none"> 1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 2. Understructure: SS Finish. <p>Approx. Dimensions: 2100(W) X 750(D) X 750(H)</p>	Nos
10	<p>Shoe Rack: Made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. Approx. Dimensions: 1200(W) X 450(D) X 600(H)</p>	Nos
11	<p>Coat & Helmet Stand made up of matt finish SS</p>	Nos
	<p>Control Room Interior</p>	

12	Wall paneling with glass :- Paneling with 8mm thick Glass. Fixing of glass panel with Mirror-compatible SS Studs.	Sq. Ft.
13	Lattice Multi Layered Metal Concept Paneling :- It shall consist of CNC Laser cut & Powder coat metal panel with metal sheets of Preformed textured RIGID PVC over GI sheet panels which shall be fixed on framework.	Sq. Ft.
14	Acoustic Metal Partition:- Partition with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching and bending CNC. and their properties shall be as follows 1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface.	Sq. Ft.
15	Designer Metal Partition:- Partition with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching and bending CNC. and their properties shall be as follows :- 1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface.	Sq. Ft.
16	Acoustic Curved Metal Paneling :- Curved Paneling with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching to fix metal panel and bending CNC. and their properties shall be as follows :- 1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface.	Sq. Ft.
17	Acoustic Metal Paneling :- Paneling with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching to fix metal panel and bending CNC. and their properties shall be as follows :-1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface. <u>Inclusive of Location 2 & 3</u>	Sq. Ft.
18	Metal panel made straight rafters :- Metal rafter made out of 75 X 50mm MS C sections covered by factory made metal panels of Preformed textured PVC coated GI sheet panels.	Sq. Ft.
19	Glass Partition Material:- (12 mm thick toughened glass) Including full glass partitions of minimum 12 mm thick clear toughened glass, structural support system for top and bottom including holding system from RCC slab above false ceiling, including runner hung anchor fastener to fix it. Rubber interlinear & gaskets to fix bottom into SS "U" channel in floor. silicon sealant to filled gap.	Sq. Ft.
20	Glass Partition Material with Switchable Smart functionality :- (12 mm thick toughened glass) Feature: This panel shall have two modes viz opaque and transparent by electrical means. The partition shall be full heighted partitions of minimum 12 mm thick clear toughened glass, structural support system for top and bottom including holding system from RCC slab above false ceiling, including runner hung anchor fastener to fix it. Rubber interlinear & gaskets to fix bottom into SS "U" channel in floor. silicon sealant to filled gap. <u>Only on single pane facing the LVS</u>	Sq. Ft.
20	12mm thick toughened clear glass Double door :- Size :- 1500mm X 2400mm Door shall have 50-100mm frame (made of same material as that of wall paneling /partition) and shall have 12mm thick glass pane in between With door spring and locking arrangements and both way handle and patch fittings. Specifications : Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Features: Safety (tempered): when broken, it spits into tiny harmless pieces.	Nos

21		<p>12mm thick toughened clear glass Single door :- Size :- 1200mm X 2400mm Door shall have 50-100mm frame (made of same material as that of wall paneling /partition) and shall have 12mm thick glass pane in between With door spring and locking arrangements and both way handle and patch fittings. Specifications : Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Features: Safety (tempered): when broken, it spits into tiny harmless pieces</p>	Nos
22		<p>12mm thick toughened clear glass Single door:- Size :- 1000mm X 2400mm Door shall have 50-100mm frame (made of same material as that of wall paneling /partition) and shall have 12mm thick glass pane in between With door spring and locking arrangements and both way handle and patch fittings. Specifications : Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Features: Safety (tempered): when broken, it spits into tiny harmless pieces.</p>	Nos
23		<p>Designer Baffle False ceiling :- The baffles shall be made up of powder coated GI/MS sheet. These baffle planks shall be bend through CNC to have dimensions as 100X25mm OR 80X30mm OR 225MMx50mm. as per the architect's approval. Center to Center distance shall be minimum 150mm.</p>	Sq. Ft.
24		<p>Grid type 2' X 2' Ceiling in Cabin areas and other rooms:- Modular perforated metal false ceiling. Tile dimension shall be 2' X 2'. with durable regular edging and having following properties:- i) NRC (Noise Reduction Co-efficient) ii) Light reflectance. iii) Fire performance. iv) Humidity Resistance. v) Hot dipped galvanized steel. vi) Baked Polyester Paint surface.</p>	Sq. Ft.
25		<p>Calcium Silicate Board Ceiling Material:- Plain Calcium Silicate acoustic Boards for false ceiling with 12mm Approx. thick, Structure for underside of suspended grid formed of GI perimeter channels. Wood screws and metal expansion raw plugs for fixing with wall. Plastic emulsion paint of approved make and shade for finishing surface of Calcium Silicate Boards. Specification: Calcium Silicate Board is manufactured from a mixture of Portland cement, fine silica, special cellulose fibers and selected fillers to impart durability, toughness, fire and moisture resistance. Expansion after expose to the water for 24 Hr.: 0.12%, Noise Resistance: B38, Water absorption by Weight: 34%, Fire resistance: BS 476 incombustible A1 Class.</p>	Sq. Ft.

Technical Specification For Interior Part (Annexure- B)

S.No.	Description	Unit
	Furniture (Images are for reference only)	
1	<p>Operator Chair:-</p> <ol style="list-style-type: none"> 1. High Back Chair 2. PP Arm 3. Nylon Base 4. Gas Lift 5. Seat Back Net Tapestry 	Nos
2	<p>Office Chair:</p> <ol style="list-style-type: none"> 1. Medium Back Chair 2. PP Arm 3. Nylon Base 4. Gas Lift 5. Seat Back Net Tapestry 	Nos
3	<p>Stool Without Arm, Pipe Frame, Revolving, Chrome Base, Gas Lift & Foot Rest, Cushion Seat & PP Back</p> 	Nos
4	Relaxation Chair/Recliner	Nos
5	<p>2 Seater Sofa With Wooden Frame, SS Legs, Leatherite Tapestry</p> <p>Size (in mm) 1450 (L); 760 (D); 750 (H)</p> 	Nos
	Control Room Interior	
6	<p>LED Ceiling light:-</p> <p>LED office General Lighting Solutions which offers excellent energy saving and maintenance free operation. The luminaire has a slim design which is suitable for recessed mounted application for office Spaces. Powered by Long lasting LED light source and high efficiency optical system the luminaire offers a uniform and uninterrupted Lighting. Energy Efficiency Recessed Mounted LED luminaire Suitable for 2x2 Grid Ceiling. Lumen Output of 2200 Lumens. Available in 4000k & 5000k color temperatures. Constant current electronic driver.</p>	Nos
7	<p>Round LED Ceiling light :- High performance LED downlighter with high system efficacy for good quality and uniform lighting. Conforms to general lighting norms for office and other indoor application .Features • Consistent light output • Long life • CRI >80 Specifications : DLED Mini LED engine, 1000lm package, CFL replacement up to 2x18W, CCT Warm white: 3000K / Neutral white: 4000K / Cool white: 5000K, 12W Power (4000K), System efficacy : 75lm/W (3000K) / 78lm/W (4000K, 5000K), 220V-240V/50, 60Hz Voltage, Integrated driver, High quality diffuser Optics, ø152mm Cut out, Material : Heat sink: die-cast Diffuser: PMMA Reflector: PC Clip steel, White (RAL9010) Ring color, Spring clip, 5 SDCM.</p>	Nos

8		<p>Round LED Emergency Light :- Emergency lighting provided for use when the supply to the normal lighting fails; emergency lighting shall be activated not only on complete failure of the supply to the premises but also on a localized circuit failure.</p> <p>Features • Consistent light output • Long life • CRI >80</p> <p>Specifications : DLED Mini LED engine, 1000lm package, CFL replacement up to 2x18W, CCT Warm white: 3000K / Neutral white: 4000K / Cool white: 5000K, 12W Power (4000K), System efficacy : 75lm/W (3000K) / 78lm/W (4000K, 5000K), 220V-240V/50, 60Hz Voltage, Integrated driver, High quality diffuser Optics, ø152mm Cut out, Material : Heat sink: die-cast Diffuser: PMMA Reflector: PC Clip: steel, White (RAL9010) Ring color, Spring clip, 5 SDCM.</p>	Nos
9		Controller for Dynamic Lights	Nos.
10		MASTER LED tube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. For those that are looking for value for money within limited budget and re-lamping efforts for better light effect and lifetime.	Nos
11		<p>Cove Light for designer Ceiling :- It will be a continuous rail of LED light, high brightness , neutral, or warm white with wall washing applications. Its slim profile and simple daisy-chain system allows high design flexibility to form long.</p>	R. Ft.
12		<p>Wires, Switches & Conduits for ceiling lights :- Wires for ceiling lights inter looping and switches will be provided, consisting of PVC insulated copper conductor stranded flexible FRLS wires of 1100 volts grade of insulation, in metallic conduits, PVC/ metallic conduits. Minimum size of copper conductor shall be 2.5 sq. mm for lighting and 4 sqmm for power. color of wires shall be Red/Yellow/Blue (or as per Local Standards) for the all single phases, Black for neutral and Green for earthing.</p>	Sq. Ft.
13		<p>Flooring material of Marmoleum Acoustic Flooring Systems :- Floor system with twinlayer linoleum built up from 2 mm Marmoleum and a 2 mm Corkment backing. All tiles to be decorative type of approved shade, pattern, texture and design and of approved manufacturer. Dimensions shall be as per the final approved design and site requirement.</p>	Sq. Ft.
14		<p>Granite Stone for all floor steps :- Providing 18 mm Prepolished Granite stone for Stairs & Floor steps, in required design and pattern, with 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and joint with white cement slurry including pointing with white cement slurry admixed with pigment of matching shade, all as per Architectural drawings, and as directed by the Engineer-in-Charge. Make : Indian Reputed (Basic Rate of Granite Stone 120/- Sq. Ft.)</p>	Sq. Ft.
15		<p>Granite Stone for platforms & counters :- Providing 18 mm thick granite premoulded and prepolished for platforms & counters of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, moulding and polishing to edges to give high gloss finish etc. complete at all levels.</p>	Sq. Ft.
16		**Optional Decorative elements :- Plants for green courtyard	Lot
17		**Optional CORPORATE LOGO Approx. Dimensions: 1200mm(W) X 900mm(H)	Nos
18		Designer privacy film for glass Partition and glass Door	Sq. Ft.
19		**M. S. Structure Material for War Room Stairs & Mazzanine Floor :- (Optional can be taken in customer scope) ISMC and Checkered plate	Sq. Ft.

Integration of Interior- Service Part (Annexure- C)		
S.No.	Description	Unit
	SERVICE PART	
1	Milestone 1: 1. Detailed Drawings, 2. Color Options, 3. Design of ceiling, paneling & illumination of the control room.	Lot
2	Project Management/Supervision/Assembly Charges for Installation & Commissioning:-	
2.01	Milestone 2: Assembly Charges shall become due against conduiting and wire laying work.	Lot
2.02	Milestone 3: Assembly Charges shall become due against completion of Paneling, wall finishing & Partition work.	Lot
2.03	Milestone 4: Assembly Charges shall become due against completion of Ceiling work.	Lot
2.04	Milestone 5: Assembly Charges shall become due against completion of Flooring work.	Lot
2.05	Milestone 6: Assembly Charges shall become due against completion of Doors fixing, Light Fitting & Miscellaneous work.	Lot
2.06	Milestone 7: Assembly Charges shall become due against Desk/furniture installation.	Lot

List of approved Make-

S.No.	Electrical Item	Brand Name of Make
1	PVC Copper conductor Wires, ISI Marked, PVC Insulation FRLS	HAVELLS, FINOLEX. ANCHOR, RR KABEL, HPL, POLYCAB, KEI.
2	PVC Conduct Pipe, ISI Marked and accessories, PVC Casting and Capping and its accessories	PRECISION, MODI, SHRINATH CROWN, AKG/BEC
3	Steel Conduit pipe ISI Marked.	JINDAL, BEC, NIC
4	Modular Flush type switches, sockets etc.	LEGRAND, ANCHOR, FINOLEX, ANCHOR/ C&S/ HAVELLS/ HPL.
5	Phenolic laminated sheet.	HYLAM, ANCHOR
6	MCB, Isolator, RCCB, MCB-DB	HAVELLS, LEGRAND, SIEMENS, SCHNEIDER, L&T(HAGER), ABB
7	XLPE Insulated Cables	HAVELLS, FINOLEX, POLYCAB, RR KABEL, KEI.
8	G.I.Pipes (ISI Marked)	TATA, SWASTIK, JINDAL
9	copper refrigerant piping	Mexflow/Mandev/Rajco/ kajco)

SECTION-8
BILL OF QUANTITY

NON_SOR_ITEMS

S.No.	Unit	Description	Quantity
1	Nos	<p>New Modular Control Desk for 10 monitors & 05 operators:-</p> <ol style="list-style-type: none"> 1. Work-surface shall be minimum 25 mm thick MDF with High Pressure; scratch resistant Wilson art Laminate (ANSI/NEMA LD3 certified). 2. Structure shall be made of 6063T6 grade Extruded Vertical & Horizontal Aluminium profiles (powder coated finish) fastened together with heavy duty MS joineries. Structure should be rigid enough to withstand BIFMA X5.5:2014 tests. 3. Shutters: The shutters shall be made of Prefomed Textured Hot dip galvanized strips and sheets of low carbon steel coated on one side with rigid polyvinylchloride (PVC) film and on the other side a coating based on cross linkable polyester resins (sheet thickness 0.6mm & PVC Coating 0.15mm). The shutter tile shall be ASTM E-84a (UL certified only) for surface burning characteristics. 4. Aluminium die-casted smart Articulating Monitor arm shall be able to mount monitors complying VESA standards 75 x 75, 100 x 100, 200 x 100 & 200x200 mm. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Front edge shall be moulded Polyurethane edging on profiled wooden top. Conventional T-shape of PU / PVC / PP shall not be accepted as they can be pulled out manually. 8. for Details, Please refer tender Specs 	1
2	Nos	<p>New Modular Control Desk for 08 monitors & 04 operators:-</p> <ol style="list-style-type: none"> 1. Work-surface shall be minimum 25 mm thick MDF with High Pressure; scratch resistant Wilson art Laminate (ANSI/NEMA LD3 certified). 2. Structure shall be made of 6063T6 grade Extruded Vertical & Horizontal Aluminium profiles (powder coated finish) fastened together with heavy duty MS joineries. Structure should be rigid enough to withstand BIFMA X5.5:2014 tests. 3. Shutters: The shutters shall be made of Prefomed Textured Hot dip galvanized strips and sheets of low carbon steel coated on one side with rigid polyvinylchloride (PVC) film and on the other side a coating based on cross linkable polyester resins (sheet thickness 0.6mm & PVC Coating 0.15mm). The shutter tile shall be ASTM E-84a (UL certified only) for surface burning characteristics. 4. Aluminium die-casted smart Articulating Monitor arm shall be able to mount monitors complying VESA standards 75 x 75, 100 x 100, 200 x 100 & 200x200 mm. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Front edge shall be moulded Polyurethane edging on profiled wooden top. Conventional T-shape of PU / PVC / PP shall not be accepted as they can be pulled out manually. 8. for Details, Please refer tender Specs 	3
3	Nos	<p>New Modular Control Desk for 06 monitors & 03 operators:-</p> <ol style="list-style-type: none"> 1. Work-surface shall be minimum 25 mm thick MDF with High Pressure; scratch resistant Wilson art Laminate (ANSI/NEMA LD3 certified). 2. Structure shall be made of 6063T6 grade Extruded Vertical & Horizontal Aluminium profiles (powder coated finish) fastened together with heavy duty MS joineries. Structure should be rigid enough to withstand BIFMA X5.5:2014 tests. 3. Shutters: The shutters shall be made of Prefomed Textured Hot dip galvanized strips and sheets of low carbon steel coated on one side with rigid polyvinylchloride (PVC) film and on the other side a coating based on cross linkable polyester resins (sheet thickness 0.6mm & PVC Coating 0.15mm). The shutter tile shall be ASTM E-84a (UL certified only) for surface burning characteristics. 4. Aluminium die-casted smart Articulating Monitor arm shall be able to mount monitors complying VESA standards 75 x 75, 100 x 100, 200 x 100 & 200x200 mm. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Front edge shall be moulded Polyurethane edging on profiled wooden top. Conventional T-shape of PU / PVC / PP shall not be accepted as they can be pulled out manually. 8. for Details, Please refer tender Specs 	3

4	Nos	<p>New Modular Control Desk for 04 monitors & 02 operators:-</p> <ol style="list-style-type: none"> 1. Work-surface shall be minimum 25 mm thick MDF with High Pressure; scratch resistant Wilson art Laminate (ANSI/NEMA LD3 certified). 2. Structure shall be made of 6063T6 grade Extruded Vertical & Horizontal Aluminium profiles (powder coated finish) fastened together with heavy duty MS joineries. Structure should be rigid enough to withstand BIFMA X5.5:2014 tests. 3. Shutters: The shutters shall be made of Preformed Textured Hot dip galvanized strips and sheets of low carbon steel coated on one side with rigid polyvinylchloride (PVC) film and on the other side a coating based on cross linkable polyester resins (sheet thickness 0.6mm & PVC Coating 0.15mm). The shutter tile shall be ASTM E-84a (UL certified only) for surface burning characteristics. 4. Aluminium die-casted smart Articulating Monitor arm shall be able to mount monitors complying VESA standards 75 x 75, 100 x 100, 200 x 100 & 200x200 mm. 5. Keyboard trays. 6. Ergonomic design considering proper Leg space. 7. Front edge shall be moulded Polyurethane edging on profiled wooden top. Conventional T-shape of PU / PVC / PP shall not be accepted as they can be pulled out manually. 8. for Details, Please refer tender Specs 	2
5	Nos	<p>Printer Table for A4 size printer:-</p> <ol style="list-style-type: none"> 1. Table top made of 25mm MDF. 2. Extruded aluminum profile with 2 mm thk. Vertical support. 3. Proper Cable tray for flow of wire. <p>Size: 750mm (H) X 700mm (W) X 600mm (D)</p>	5
6	Nos	<p>Manager Table 1:1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape.2. Leg: Ergonomically designed and matching with the open office concept. The leg is made out of specially designed aluminum extruded section with approved finish. The Extrusions shall be duly powder coated with 40+ micron over all surfaces. The top part of leg is having die casted specially designed aluminum connector to connect with structure. 3. Beam: Beam is made of heavy duty Extruded Horizontal Aluminum. The Extrusions is duly powder coated with 40+ micron over all surfaces. The connector is aluminum die casted specially designed to connect with structure.4. Connector: Pipe and structure are interconnected with Aluminum Die Casted.5. Modesty Panel: made up of MS Powder Coated Finish.6. Side and Back Runner: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape.Approx. Dimensions:1800(W) X 750(D) X 750(H)900(W) X 450(D) X 750(H)1800(W) X 450(D) X 750(H)</p>	2
7	Nos	<p>Manager Table 2:</p> <ol style="list-style-type: none"> 1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 2. Leg: Ergonomically designed and matching with the open office concept. The leg is made out of specially designed aluminum extruded section with approved finish. The Extrusions shall be duly powder coated with 40+ micron over all surfaces. The top part of leg is having die casted specially designed aluminum connector to connect with structure. 3. Beam: Beam is made of heavy duty Extruded Horizontal Aluminum. The Extrusions is duly powder coated with 40+ micron over all surfaces. The connector is aluminum die casted specially designed to connect with structure. 4. Connector: Pipe and structure are interconnected with Aluminum Die Casted. 5. Modesty Panel: made up of MS Powder Coated Finish. 6. Side and Back Runner: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. <p>Approx. Dimensions: 2100(W) X 750(D) X 750(H) 1050(W) X 450(D) X 750(H) 3400(W) X 450(D) X 750(H)</p>	1
8	Nos	<p>Conference Table</p> <ol style="list-style-type: none"> 1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 2. Gable End: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 3. Modesty Panel: made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. 4. Accessories: Flap 	1

9	Nos	Pantry Table 1. Table Top: made up of 25mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape.2. Understructure: SS Finish.Approx. Dimensions:2100(W) X 750(D) X 750(H)	1
10	Nos	Shoe Rack: Made up of 18mm thick Prelaminated Particle Board with 2mm thick PVC edge banding tape. Approx. Dimensions: 1200(W) X 450(D) X 600(H)	1
11	Nos	Coat & Helmet Stand made up of matt finish SS	1
12		Control Room Interior	
13	Sq. Ft.	Wall paneling with glass :- Paneling with 8mm thick Glass. Fixing of glass panel with Mirror-compatible SS Studs.	64
14	Sq. Ft.	Lattice Multi Layered Metal Concept Paneling :- It shall consist of CNC Laser cut & Powder coat metal panel with metal sheets of Preformed textured RIGID PVC over GI sheet panels which shall be fixed on framework.	301
15	Sq. Ft.	Acoustic Metal Partition:- Partition with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching and bending CNC. and their properties shall be as follows :- 1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface.	1992
16	Sq. Ft.	Designer Metal Partition:- Partition with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching and bending CNC. and their properties shall be as follows :- 1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface.	160
17	Sq. Ft.	Acoustic Curved Metal Paneling :- Curved Paneling with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching to fix metal panel and bending CNC. and their properties shall be as follows :- 1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface.	1196
18	Sq. Ft.	Acoustic Metal Paneling :- Paneling with factory made removable type self inter lockable metal panels of Preformed textured RIGID PVC coated GI sheet panels. The metal panels fixed on structure made of 1.6 mm thick MS channels bent over automatic punching to fix metal panel and bending CNC. and their properties shall be as follows :-1) Resistance to extremes of weather exposure and temperature. 2) Very low coefficient of expansion. 3) Can be cleaned using detergents. 4) Superior flatness – ideal of creating smooth, monolithic surface. <u>Inclusive of Location 2 & 3</u>	4650
19	Sq. Ft.	Metal panel made straight rafters :- Metal rafter made out of 75 X 50mm MS C sections covered by factory made metal panels of Preformed textured PVC coated GI sheet panels.	301

20	Sq. Ft.	Glass Partition Material:- (12 mm thick toughened glass) Including full glass partitions of minimum 12 mm thick clear toughened glass, structural support system for top and bottom including holding system from RCC slab above false ceiling, including runner hung anchor fastener to fix it. Rubber interlinear & gaskets to fix bottom into SS "U" channel in floor. silicon sealant to filled gap.	744
21	Sq. Ft.	Glass Partition Material with Switchable Smart functionality film:- (12 mm thick toughened glass) Including full glass partitions of minimum 12 mm thick clear toughened glass, structural support system for top and bottom including holding system from RCC slab above false ceiling, including runner hung anchor fastener to fix it. Rubber interlinear & gaskets to fix bottom into SS "U" channel in floor. silicon sealant to filled gap. Only on single pane facing the LVS	193
22	Nos	12mm thick frameless tempered clear glass Double door :- Size :- 1500mm X 2400mm With door spring and locking arrangements and both way handle and patch fittings. Specifications : Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Properties: 1) Safety (tempered): when broken, it spits into tiny harmless pieces 2) Strong intensity: heat-strengthened glass is approximately twice as strong as annealed glass of the same thickness, and tempered glass is about 4 times 3) Outstanding performance in resisting thermal stress and wind-load 4) Tempered glass cannot be cut, drill hole and other further processed.	3
23	Nos	12mm thick frameless tempered clear glass Single door :-Size :- 1200mm X 2400mm With door spring and locking arrangements and both way handle and patch fittings. Specifications : Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Properties:1) Safety (tempered): when broken, it spits into tiny harmless pieces 2) Strong intensity: heat-strengthened glass is approximately twice as strong as annealed glass of the same thickness, and tempered glass is about 4 times 3) Outstanding performance in resisting thermal stress and wind-load 4) Tempered glass cannot be cut, drill hole and other further processed.	1
24	Nos	12mm thick frameless tempered clear glass Single door :- Size :- 1000mm X 2400mm With door spring and locking arrangements and both way handle and patch fittings. Specifications : Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Properties: 1) Safety (tempered): when broken, it spits into tiny harmless pieces 2) Strong intensity: heat-strengthened glass is approximately twice as strong as annealed glass of the same thickness, and tempered glass is about 4 times 3) Outstanding performance in resisting thermal stress and wind-load 4) Tempered glass cannot be cut, drill hole and other further processed.	3
25	Sq. Ft.	Designer Baffle False ceiling :- The baffles shall be made up of powder coated GI/MS sheet. These baffle planks shall be bend through CNC to have dimensions as 100X25mm OR 80X30mm as per the architect's approval. Center to Center distance shall be minimum 150mm.	2452
26	Sq. Ft.	Designer Acoustic Metal False ceiling with linear planks :- The ceiling system will consist of linear box shaped panels shall be made up of combination of perforated and non-perforated panels so as to achieve strength and acoustics. These tiles shall be bend through CNC, machine punched & laser Cut so as to achieve perfect accuracy. Panels fixed to an adjustable suspension system which allows for individual panels to be removable type. Structure Shall be made from heavy duty powder coated modular steel frame (minimum sheet thickness 1 to 1.6mm). Anchor fastener and GI self-threaded rods for grout this from roof. It shall be formed with the help of slotted rolled W sections (stiffener) and M section (Master) with help of M6 cage nut and bolts.	220

27	Sq. Ft.	Grid type 2' X 2' Ceiling in Cabin areas and other rooms:-Modular perforated metal false ceiling. Tile dimension shall be 2' X 2'. with durable regular edging andhaving following properties:- i) NRC (Noise Reduction Co-efficient)ii) Light reflectance.iii) Fire performance.iv) Humidity Resistance.v) Hot dipped galvanized steel.vi) Baked Polyester Paint surface.	300
28	Sq. Ft.	Calcium Silicate Board Ceiling Material:- Plain Calcium Silicate acoustic Boards for false ceiling with 12mm Approx. thick, Structure for underside of suspended grid formed of GI perimeter channels. Wood screws and metal expansion raw plugs for fixing with wall. Plastic emulsion paint of approved make and shade for finishing surface of Calcium Silicate Boards. Specification: Calcium Silicate Board is manufactured from a mixture of Portland cement, fine silica, special cellulose fibers and selected fillers to impart durability, toughness, fire and moisture resistance. Expansion after expose to the water for 24 Hr.: 0.12%, Noise Resistance: B38, Water absorption by Weight: 34%, Fire resistance: BS 476 incombustible A1 Class.	2415
29	Nos	LED Ceiling light:- LED office General Lighting Solutions which offers excellent energy saving and maintenance free operation. The luminaire has a slim design which is suitable for recessed mounted application for office Spaces. Powered by Long lasting LED light source and high efficiency optical system the luminaire offers a uniform and uninterrupted Lighting. Light source: LED Lumen output: 2800 - 3500 Light color: 3000K - 6500K Power consumption: 29 to 38 W Voltage: 220-240V AC 50Hz Color: White Lifetime: 35000 burning hrs. (At L70)	10
30	Nos	Round LED Ceiling light :- High performance LED downlighter with high system efficacy for good quality and uniform lighting. Conforms to general lighting norms for office and other indoor applications. a) Temperature- 3000 K to 6500K b) CRI >70 c) Power Consumption 12W to 24W d) Aesthetically designed enclosures e) Highly efficient constant current LED drivers f) Ideal replacement for traditional PAR/CFL lamp g) Up to 80% energy saving. h) LED's life >25,000 hrs @ L70	60
31	Nos	Round LED Emergency Light :- Emergency lighting provided for use when the supply to the normal lighting fails; emergency lighting shall be activated not only on complete failure of the supply to the premises but also on a localized circuit failure. a) Temperature- 3000 K to 6500K b) CRI >70 c) Power Consumption 12W to 24W d) Aesthetically designed enclosures e) Highly efficient constant current LED drivers f) Ideal replacement for traditional PAR/CFL lamp g) Up to 80% energy saving. h) LED's life >25,000 hrs @ L70	30
32	Nos	MASTER LED tube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. For those that are looking for value for money within limited budget and re-lamping efforts for better light effect and lifetime.	60

33	R. Ft.	Cove Light for designer Ceiling :- It will be a continuous rail of LED light, high brightness , neutral, or warm white with wall washing applications. Its slim profile and simple daisy-chain system allows high design flexibility to form long. Light source: LED Lumen output: 840 lm/Mtr. Light color: 3000K/6000K Power consumption: 9.8 W/Mtr. Voltage: 12V AC 50Hz Optics: Sand-blasted matt finish reflector Color: White Lifetime: 40000 burning hrs. (At L70) (WITH SMART CONTROL)	304
34	Sq. Ft.	Antistatic Flooring material of Laminate Flooring Systems :- Floor system with durable & environment friendly acoustic twinlayer linoleum built up from 2 mm Laminate and a 2 mm Corkment backing. Floor to be decorative type of approved shade, pattern, texture and design and of approved manufacturer. Dimensions shall be as per the final approved design and site requirement.	5387
35	Sq. Ft.	Granite Stone for all floor steps :- Providing 18 mm Prepolished Granite stone for Stairs & Floor steps, in required design and pattern, with 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and joint with white cement slurry including pointing with white cement slurry admixed with pigment of matching shade, all as per Architectural drawings, and as directed by the Engineer-in-Charge. Make : Indian Reputed (Basic Rate of Granite Stone 120/- Sq. Ft.)	243
36	Sq. Ft.	Granite Stone for platforms & counters :- Providing 18 mm thick granite premoulded and prepolished for platforms & counters of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	56
37	Lot	**Optional Decorative elements :- Plants for green courtyard	1
38	Nos	**Optional CORPORATE LOGO Approx. Dimensions: 1200mm(W) X 900mm(H)	1
39	Sq. Ft.	Designer privacy film for glass Partition and glass Door	367
40	Nos	Automatic light controller for Internal lights	1
41	Sq. Ft.	**M. S. Structure Material for War Room Stairs & Mazzanine Floor :- (Optional can be taken in customer scope) ISMC and Checkered plate	669
42		Console / Furniture	
43	Nos	Operator Chair:- 1. High Back Chair 2. PP Arm 3. Nylon Base 4. Gas Lift 5. Seat Back Net Tapestry	34
44	Nos	Office Chair: 1. Medium Back Chair 2. PP Arm 3. Nylon Base 4. Gas Lift 5. Seat Back Net Tapestry	28

45	Nos	Stool Without Arm, Pipe Frame, Revolving, Chrome Base, Gas Lift & Foot Rest, Cushion Seat & PP Back	6
46	Nos	Relaxation Chair/Recliner	1
47	Nos	2 Seater Sofa With Wooden Frame, SS Legs, Leatherite Tapestry Size (in mm) 1450 (L); 760 (D); 750 (H)	1
48		SERVICE PART	
49	Lot	Milestone 1: 1. Detailed Drawings, 2. Color Options, 3. Design of ceiling, paneling & illumination of the control room.	1
50		Project Management/Supervision/Assembly Charges for Installation & Commissioning:-	
51	Lot	Milestone 2: Assembly Charges shall become due against conduiting and wire laying work.	1
52	Lot	Milestone 3: Assembly Charges shall become due against completion of Paneling, wall finishing & Partition work.	1
53	Lot	Milestone 4: Assembly Charges shall become due against completion of Ceiling work.	1
54	Lot	Milestone 5: Assembly Charges shall become due against completion of Flooring work.	1
55	Lot	Milestone 6: Assembly Charges shall become due against completion of Doors fixing, Light Fitting & Miscellaneous work.	1
56	Lot	Milestone 7: Assembly Charges shall become due against Desk/furniture installation.	1

ELECT_CPWD_SOR_2016

SR · NO	SOR REFEREN CE	PARTICULAR	UNIT	RAT E	QT Y	AMT
	1.54	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.				
1	1.54.1	Details of cost for 1 point	EACH	415	180	74700
2	1.54.2	Details of cost for 1 point	EACH	510	120	61200
3	1.54.3	Details of cost for 1 point	EACH	601	100	60100
	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
4	1.27.1	1 or 2 Module (75 mmX75 mm)	EACH	175	20	3500
5	1.27.2	3 Module (100 mmX75 mm)	EACH	185	20	3700
6	1.27.3	4 Module (125 mmX75 mm)	EACH	205	20	4100
7	1.27.4	6 Module (200 mmX75 mm)	EACH	258	55	14190
8	1.27.5	8 Module (125 mmX125 mm)	EACH	297	50	14850
9	1.27.6	12 Module (200 mmX150 mm)	EACH	344	60	20640
	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
10	1.24.1	5/6 A switch	EACH	84	160	13440
11	1.24.2	2 way 5/6 A switch	EACH	99	20	1980
12	1.24.3	15/16 A switch	EACH	114	80	9120
13	1.24.4	3 pin 5/6 A socket outlet	EACH	81	40	3240
14	1.24.5	6 pin 15/16 A socket outlet	EACH	153	80	12240
15	15.1	Supplying,installation,testing and commissioning of Passive	EACH	3193	10	31930
		Infrared(PIR) technology based occupancy sensor having high				
		preformance, non regulating programmable type, suitable for				
		connected load upto 10 A, for mounting height up to 2.8 meter				
		and for 5 meter diameter coverage area along with necessary				

		fixing arrangements i/c programming at site etc. complete as required.				
	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
16	2.4.1	4 way (4 + 12), Double door	EACH	2198	5	10990
17	2.4.2	6 way (4 + 18), Double door	EACH	2659	5	13295
18	2.4.3	8 way (4 + 24), Double door	EACH	3171	10	31710
	2.1	Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.				
19	2.1.1	32A TP&N	EACH	1493	30	44790
20	2.1.2	63A TP&N	EACH	2110	20	42200
21		6 A to 32 A ratings, SP MCB, "C" curve, 10 kA breaking capacity	EACH	117	60	7020
	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.				
22	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	METE R	206	90	18540
23	1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	METE R	237	180	42660
24	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	METE R	324	150	48600
25	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	METE R	392	120	47040
	2	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
26	2.2.5	200 A, 25 kA, TPMCCB		7964	1	7964
TOTAL						64373 9