

## e-TENDER NOTICE

Online tenders are invited through e-tendering mode by **Managing Director, Maharashtra Film, Stage and Cultural Development Corporation Ltd., Dadasaheb Phalke Chitranagari, Goregaon (East), Mumbai – 400 065** in two bid system from reputed contractors and having experience of similar type of work.

Sr. No.	Name of	EMD	Tender Fees	Qualification Criteria
1	AMC of window & split A.C. Units	25000	3000	Having similar type of work experience.
2	Annual Supply of Electrical Items	25000	5000	Having Electrical contractor License & having similar type of work experience.
3	SITC of Street Lights	150000	20000	Registered "A" Class contractor from PWD, CPWD, MES & other state government PSU.

Detail Tender documents are available on website: <https://mahatenders.gov.in> from 31.03.2022 to 15.04.2022. For further information please call on (022) 28408966 on all working days.  
sd/-

**Managing Director**

**MAHARASHTRA FILM STAGE CULTURAL DEVELOPMENT CORPORATION LIMITED**  
**( A Govt. of Maharashtra Undertaking)**  
**Dadasaheb Phalke Chitranagari, Goregaon(East), MUMBAI-400065.**  
**Tel. No.- 28401533, 28401755. Fax No. 28400734.**

**Tender Papers for**

**Name of the Work : SITC of street lights at Filmcity.**

**Estimated Cost: Rs.1,29,80,535/- ( Rupees One Corer Twenty Nine Lacs Eighty Thousand Five Hundred Thirty Five only)**

**Cost of Tender Form: Rs.20,000/- (Rupees Twenty Thousand only)**  
**Non Refundable (paid by Net Banking mode. )**

**Issued to:**

## INDEX

**NAME OF WORK : SITC of street light at Filmcity.**

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Issued  
to

On  
dated

### **Brief Tender Notice**

#### **E-TENDER NOTICE NO :**

**Sub : Online Percentage Rate tenders are invited from the contractors having "A" class registration with P.W.D/ C.P.W.D/M.E.S and Experience of Similar Type of Work.**

<b>Sr. no</b>	<b>Name of Work</b>	<b>Amount to Tender ( Rs)</b>	<b>Amount of EMD (Rs)</b>	<b>Cost of online Tender Document (Rs)</b>
1	<b>SITC of Street lights at Filmcity.</b>  <b>Maharashtra Film , Stage &amp; Cultural Dev. Corp, Film City</b>	<b>Rs.1,29,80,535/-</b>	<b>Rs.1,50,000/- (paid by Net Banking mode. )</b>	<b>Rs.20,000/- (paid by Net Banking mode. )</b>

Tenders to be submitted on department's e-Tendering portal i.e. <https://mahatenders.gov.in> in two online envelope system marked as Technical Envelope and Commercial Envelope. Tender forms are available for download on above mentioned e-Tendering Portal. The cost of Tender Document is Rs. 15,000/- (Rupees Fifteen Thousand only).

#### **HOW TO REGISTER :**

Bidder are request to register themselves at <https://mahatenders.gov.in>

#### **HOW TO GET A TENDER FORM :**

Tender form along with terms and conditions can be downloaded from e-tendering portal <https://mahatenders.gov.in> of the MFSCDC Ltd. **W.E.F. 31<sup>st</sup> March, 2022 at 10.00 hrs to 15<sup>th</sup> April, 2022 at 18:00 hrs.**

**EARNEST MONEY DEPOSIT**

The Earnest Money Deposit can be paid only online by **Net Banking mode only**. The Tender received without **EMD** may not be considered.

**COST OF TENDER DOCUMENT :**

The non refundable tender document fees per tenders @ Rs. 22,400/- can be paid **Net Banking mode only**.

## **TENDER TIME SCHEDULE (KEY DATES)**

The tender schedule is as under

<b>Sr. No.</b>	<b>MFSCDC Stage</b>	<b>Vender Stage</b>	<b>Start Date and Time</b>	<b>Expiry Date and Time</b>	<b>Envelopes</b>
1	Publish Tender	-	31.03.2022 10:00		
2	-	Tender Download	31.03.2022 10:00	15.04.2022 18:00	Commercial Technical
3	-	Bid Submission	31.03.2022 10:00	15.04.2022 15:00	Commercial Technical
4	Technical Bid Opening	-	18.04.2022 15:00	-----	Technical
5	Price Bid Opening	-	To be communicated Qualified Bidder only		Commercial

## **ONLINE INFORMATION**

As per information technology Act-2000, the Bidders are required to sign the bid data using Class-II / Class-III Digital Certificate. The Bidder may procure the Digital Certificate in the name of the authorized representative of the Organization at the earliest.

e-Tendering Tool Kit for Bidders (detailed Help documents, designed for bidders) has been provided on e-Tendering website in order to guide them through different stages involved during e-Tendering such as online procedure for tender document downloads, bid submission.

The Bidders are required to download the Tender Forms for the above items online and also submit their Bids for these items **ONLY** online. Manual Bids for these items shall not be considered in any circumstances.

Tender Form fee and EMD should must be paid online Net Banking Mode only. Bidders whose Earnest Money Deposit and tender cost fee is not received within the prescribed time limit shall not be considered.

The various activities required to be executed by the Bidder to submit their online Bids for these items are time and date locked. The Bidders are requested to execute all the activities related to their bids within the prescribed time limites (key dates) for each stage.

If any assistance is required regarding e-Tendering (registration / upload / download) please contact Gom e-Tendering **The 24 x 7 Toll Free Telephonic Help Desk Number 1800-3070-2232.**

**Mobile : +91-7878107985 , +91-7878107986 ,+ 91-7878007972 and +91-7878007973**

**Email :** [eproc.support@maharashtra.gov.in](mailto:eproc.support@maharashtra.gov.in)

**MFSCDC terms**

Right to reject any or all tenders without assigning any reason is reserved by the component.

For any tender related query, please contact Film City on number **022-28408966**.

All the item rates have to be filled by the bidding contractor Any tender incomplete with item rates not quoted will be rejected.

For further information, please visit : <https://mahatenders.gov.in>

## Detailed Tender Notice

### 2.1 Detailed Tender Notice

Percentage rate tenders in for the following work are invited from the contractors having **“A” class registration with P.W.D/ C.P.W.D/M.E.S and Experience of Similar Type of Work.**

### WORK

<b>Sr. No.</b>	<b>Contents</b>		<b>Description</b>
1	Name of Work	:	<b>SITC of Street light at Filmcity.</b>
2	Estimated Cost	:	<b>Rs.1,29,80,535/-</b>
3	E.M.D.	:	<b>Rs.1,50,000/- ( paid by Net Banking mode. )</b>
4	Cost of Online Tender Document	:	<b>Rs.20,000/- (Rupees Twenty Thousand Only). ( paid by Net Banking mode. )</b>

## **DETAILED TENDER TIME SCHEDULE (KEY DATES)**

The tender schedule is as under

<b>Sr. No.</b>	<b>MFSCDC Stage</b>	<b>Vender Stage</b>	<b>Start Date and Time</b>	<b>Expiry Date and Time</b>	<b>Envelopes</b>
1	Publish Tender	-	31.03.2022 10:00		
2	-	Tender Download	31.03.2022 10:00	15.04.2022 18:00	Commercial Technical
3	-	Bid Submission	31.03.2022 10:00	15.04.2022 15:00	Commercial Technical
4	Technical Bid Opening	-	18.04.2022 15:00	-----	Technical
5	Price Bid Opening	-	To be communicated Qualified Bidder only	Commercial	

Pre Bid meeting will be held on Date- 07.04.2022 at 11.30 a.m at Filmcity, Goregaon-E, Mumbai.

### **2.2 COST OF TENDER DOCUMENT**

The non refundable tender document fees per tenders @ Rs.20,000/- can be paid only Net Banking.

### **2.3 INFORMATION TO BIDDERS**

Bidders are required to enroll themselves at Government of Maharashtra E-Tendering website <https://mahatenders.gov.in>

The tender document is unloaded / released on Government of Maharashtra (GOM) e-Tendering website mentioned above and has to be Downloaded as well as filled and submitted online only. As per the schedule, Tender document and supporting documents may be purchased and downloaded from following link of Film City on e-Tendering website of Government of Maharashtra, <https://mahatenders.gov.in> by Net Banking Mode online.

Bids shall be submitted online as per online schedule of the tender. Offers not submitted online will not be entertained. Tender will be opened online by Managing Director MFSCDC, through e-Tendering procedure, on the same day if possible in the presence of such intending tenders or his/their authorized representatives who may be present at that time.

## **2.4 EARNEST MONEY DEPOSIT**

**2.4.1** The earnest money deposit as declared in detailed tender notice shall be paid only online payment. If the Earnest Money Deposit is not found as per tender notice the offer of the contractor placed in online Commercial envelope shall not be opened and the tender is liable for rejection out-right.

**2.4.2** The Earnest Money Deposit can be paid only online by paid only Net Banking.

**2.4.3** The EMD in other form is not acceptable and in absence of proper earnest money deposit, tender is liable to rejection out-right.

## **2.5 TENDERING PROCEEDURE :**

### **2.5.1 Issue of Blank Tender Forms**

The tender document is uploaded / released on Government of Maharashtra (GOM) e-Tendering website <https://mahatenders.gov.in> and has to downloaded as well as filled up and submitted online Only as per the schedule. Tender document and supporting documents may be purchased and downloaded from following link of Film City on e-Tendering website of MFSDCL of Maharashtra. <https://mahatenders.gov.in> by filling Net Banking online.

## **2.6 Manner of submission of Tender and its accompaniments:**

The tenderer shall submit the Bid documents online as below:

### **A) TECHNICAL ENVOLOPE NO 1.**

#### **( DOCUMENTS TO BE SUBMITTED ONLINE)**

- i) The following documents should be scanned and uploaded on the e-Tendering website thereafter by the tenderers for Technical Bid. If any document is not submitted then the tender will be summarily rejected.
- ii) Valid "A" class registration of PWD/ CPWD/ MES.
- iii) Valid electrical contractor License copy issued by Industries, Energy & labour Department.
- iv) Certified true copy of valid registration certificate as a registered GST
- v) Tender Form Fee and EMD must be paid online Net Banking Mode and online payment Receipt scan and upload. .
- vi) Details of works of similar type carried out by the contractor (in Form No II on Page no 15).

**The work should be at least one job of Erection of High mast poles.**

- vii) Details of other works tendered for and in hand, with the value of work unfinished on the last date of submission of tender (in Form No 1 on page no 14) . The certificates from the Head of the Offices under whom the works are in progress should be enclosed.
- viii) List of machinery and plants immediately available with the tenderer for use of this work and list of machinery proposed to be utilized on this work, but not immediately available and the manner in which it is proposed to be procured (in Form No. II on Page No 15).
- ix) Detail of Technical Personnel on the rolls of tenderer (in Form No IV on Page No 17) Their names shall be enrolled on Professional Tax returns filed.
- x) Certified copy of partnership deed and power of attorney in case of firm tendering for the work (True copy attested by a Gazetted Officer)
- xi) Proof of appointment of employees including technical personnel by way of valid professional tax registration certificate in form of PT/R/ under section (i) of section 5 of Maharashtra .
- xii) Tentative program of work in the form of Bar chart shall be submitted.
- xiii) The Contractor shall submit and affidavit regarding completeness, correctness and truth fullness of documents submitted for Technical Bid.
- xiv) Income of partnership firm, attested copy of partnership deed, in case of company attested copy of memorandum and article of association and power of attorney shall be submitted
- xv) Details of works done during last three years with the Value of work unfinished. (Information to be given in Form No V)
- xvi) Even though the Bidder meet the above qualifying criteria they are subject to be disqualified if they have made:  
Misleading of false representations in the forms, attachments submitted in proof of qualification requirement
- xvii) Even though the Bidder meet the above qualifying criteria they are subject to be disqualified if they have made: Misleading of false representations in the forms, attachments submitted in proof of qualification requirement And/or Record of poor performances such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history of financial failures etc.
- Xvii) Assessment order (duly attested by Gazetted Officer) passed by Income Tax Department of A.Y. 2020-21 shall be enclosed.
- xviii) The bidders are requested to mandatorily submit the registration certificate of MSME if they are MSME registered supplier, in case if not provided, a declaration for the same stating the reason & criteria area as per MSME act is required.
- xix) Undertaking that bidder has not been Black List/ Banned/ Suspended by any MFSDCL / Semi Govt. /Authority.

## 2.7 Post Qualification Criteria

- 1) All bidders shall upload the following information and documents online for their Technical Bid Envelope.
  - a) Copies of attested document defining the constitution or legal status, place of registration, and principal place of business, written power of attorney of the signatory of the bid to commit the bidder.
  - b) Total annual turnover expressed as work performed in each of the last 3 years ( Financial year,2018-19, 2019-20, 2020-21) Annual turnover certificate of the Contractor should be certified by Chartered Accountant which was submitted to Income Tax authority at the time of submission of their annual Income Tax Return.
  - c) Experience in works of similar nature and details of works in hand and contractual commitments, clients who may be contacted for further information on those contracts.
  - d) Major items of equipment purposed to be used to carry out the contract.
  - e) Qualification and experience of key site management and technical personnel proposed to be deputed for the contractor should produce the proof appointment by way of valid professional Tax Registration Certificate in the specified Form I-A and II-A, of Maharashtra State Tax on Profession, Trade, Callings and Employment Act 1975, Rules 3(2) and 4(4) respectively, for employees including technical personnel from the professional Tax Officer of concerned district in Maharashtra (MFSDCL Format I-A, II-A and Professional Tax Clearance Certificate are enclosed). Contractor should submit Professional Tax Clearance Certificate from concerned Professional Tax Officer
  - f) Evidence of adequacy of working capital for this contract i.e. evidence of access to lines of credit and availability of others financial resources, in support of this Contractor should submit Bank details for the last three years and necessary certificate from Chartered Accountant.
  - g) Authority to seek references from the bidder's bankers.
  - h) Information regarding any current litigation in which the bidder is involved, the parties concerned and disputed amount.

The Managing Director, MAHARASHTRA FILM, STAGE AND CULTURAL DEV. CORP. LTD., reserves the right to reject any and all of the tenders without assigning any reasons thereof.

1. The agency should have annual turnover of Rs. 1.0 Cr. For last three years.
2. The quotations will be valid for a period of 120 days from the date of opening.
3. The Corporation reserves the right to assign / withdraw any numbers from maintenance at any time during the contract period without assigning any reason. Charges for maintenance assigned / withdrawn from maintenance will be paid on a pro-rata basis.

4. Corporation reserves the right to reject any & all of the tenders without assigning any reasons whatsoever.
5. The successful agency should draw insurance from Directorate Of Insurance Maharashtra only.

**B) ENVOLOPE NO.2 : ( Financial Bid)**

**RATE QUOTATION (Annexure A)**

Note:

Bidder Must Be Download, Fill Rates and Uploaded in .pdf format.

And

**BOQ (Bill Of Quantity)**

Note:

This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only.

**a) SUBMISSION OF TENDER:**

For submission of tender , tenderer must complete the online bid submission stage as per online schedule of the tender. The tenderers should ensure that their tender is prepared online before the expiry of the scheduled date and time and then submitted online before the expiry of the scheduled date and time. No delay on account of any cause will be entertained. Offers not submitted online will not be entertained.

**b) OPENING OF TENDERS**

On the date specified in the tender notice following procedure will be adopted for opening of the tender

**i) ENVELOPE NO. 1 : (Technical Bid Documents)**

First of all, Technical Bid (Envelope No. 1) of the tender will be opened in the presence of tender opening authority through e-Tendering procedure to verify its contents as per requirements. If the various documents contained in this envelope do not meet the requirements of MFSCDC, a note will be recorded accordingly by the tender opening authority and the said tenderer's Commercial Bid (Envelope No 2 ) will be considered for further action but the same will be recorded.

The decision of the tender opening authority in this regards will be final and binding on the contractors.

**ii) ENVELOPE NO. 2 (Commercial Bid) :**

**RATE QUOTATION (Annexure A)**

**Note:**

Bidder Must Be Download, Fill Rates and Uploaded in .pdf format.

And

BOQ (Bill Of Quantity)

**Note:**

This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only.

**2.8 EXAMINATION OF DRAWINGS AND SITE CONDITIONS:**

The tenderer shall, in its own interest carefully examine the drawing, conditions of contract, specifications, etc. He shall also inspect the site and acquaint himself about the climate, physical and all other conditions prevailing at site, the nature, magnitude, special features practicability of the

works, all existing and required means of communications and access to site, availability of housing and other facilities, the availability of labour and materials, labour camp site, stores and godowns etc. He shall obtain all necessary information as to the risk, contingencies and other circumstances which may affect and influence the tender. No claims on any of the above or any other factors will be entertained by the MFSDCL, should there be any discrepancy or doubt or obscurity, submit the same to the Deputy Engineer , MFSCDC for elucidation as soon as possible.

2.9 The tender submitted by the tenderer shall remain valid for a period of 90 days The date of opening of Envelope No. 2 (Financial bid). Also see para 2 of General Rules etc. of contract form.

2.10 The Contractor (s) whose tender is accepted is required to note that no foreign exchange will be released by the MFSCDC.

2.11 Tenderers who do not fulfill or any of the conditions or are incomplete in any respect are liable to summary rejection.

2.12 Right to reject any or all tenders without assigning reasons therefore is reserved.

2.13 The notice inviting tender shall form part of the tender agreement.

2.14 The successful tenders will be required to produce to the satisfaction of the specified concerned authority, a valid and concurrent license issued in his favour under the provisions of the Contract Labour (Regulations and Abolition) Act 1970, before starting the work. On failure to do so acceptance of the tender shall be liable to be withdrawn and Security Deposit forfeited.

2.15 The tender consists of Civil work involved in this project.

2.16 **ISSUE OF FORMS:**

Information regarding contract as well as blank tender forms can be obtained on e-Tendering website on payment of cost as detailed in the N.I.T.

2.16 **TIME LIMIT:**

The work is to be completed within time limit which shall be reckoned from the date of written order of commencing the work and shall be inclusive of monsoon period.

#### 2.17 TENDER RATE:

No alteration in the form of tender and the schedule of tender and no additions in the scope of special stipulation will be permitted. Rates quoted for the tender shall be taken as applicable to all leads and lifts.

#### 2.18 TENDER UNITS:

The tenderers should particularly note the unit mentioned in the Schedule "B" on which the rates are based. No change in the units shall be allowed.

#### 2.19 CORRECTION:

No corrections shall be made in the tender documents.

#### 2.20 TENDER'S ACCEPTANCE:

Acceptance of tender will rest with the Managing Director, MFSCDC, who reserves the right to reject any or all tenders without assigning any reason therefore. The tenderer whose tender is accepted will have to enter in to regular agreement within 10 days of being notified to do so. In case failure on the part of the tenderer to sign the agreement within the stipulated time, the earnest money paid by him shall stand fortified to the MFSCDC and the offer of the tenderer shall be considered as withdrawn by him

#### 2.21 CONDITIONAL TENDER:

The tender who do not fulfill the condition of the notification and the general rules and directions for the guidance to contractor in the agreement form or are incomplete in any respect are likely to be rejected without assigning any reason therefore.

- a) The tenderers shall be presumed to have carefully examined the drawings conditions and specification of the work and have fully acquainted themselves with all details of the site, the conditions of weather and labour conditions and in general with all the necessary information and data pertaining to the work, prior to tendering for the work.
- b) The data whatsoever supplied by the MFSCDC, along with the tender documents is meant to serve only as guide to the tenderers while tendering and the MFSCDC accepts no responsibility whatsoever either for the accuracy of data or their comprehensiveness.

## 2.22 **POWER OF ATTORNEY:**

If the tenderers are a firm or company, they should in their forwarding letter mention the names of all the partners together with the name of the person who hold the power of attorney authorizing him to conduct all transactions on behalf of the body, along with the tender.

2.23 The tenderer may in the forwarding letter, mention any points he may wish to make clear but right is reserved to reject the same or the whole of the tenders if the same become conditional tender thereby.

2.24 The contractor or the firm tendering for the work shall inform the MFSCDC if they Appoint their authorized agent on the work.

2.25 Any dues arising out of contract will be recovered from the contractor as arrears of Land Revenue if not paid amicably, moreover recovery of MFSCDC dues from the Contractors will be affected from the payment due to the Contractor from any other MFSCDC works under execution with them.

2.26 The tenderer shall sign and seal all pages of tender documents, conditions ,specifications, corrections slips etc. The tender should bear full signature of the tenderer or his authorized Power of Attorney holder in case of firm and upload scanned copy of same.

2.27 The Income Tax @ 2.0% including surcharges or percentages in force from time to time or at the rate as intimated by the competent Income Tax authority shall be deducted from bill amount whether measured bill, advance payment or secured Advance.

2.28 The tenderer shall submit the List of apprentice engaged by the Contractor Under Apprentice Act.

2.29 The rate quoted should be inclusive of all taxes/duties.

2.30 The statutory changes will be applicable as and when required.

2.31 The billed invoice shall specifically mention GST separately and clearly.

2.32 Rs. 2,00,000 /- will be earnest money deposit to be payable by the bidder only online Net Banking payment.

**2.33 VALIDITY PERIOD :**

The offer shall remain open for acceptance for minimum period of 120 days from the Date of opening the Envelope No. 2 (Financial Bid) and thereafter until it is withdrawn by the contractor by notice in writing duly addressed to the authority opening the tendered and sent by Registered Post, acknowledgement due.

NAME OF THE CONTRACTOR

**(I) WORKS IN HAND**

Sr No.	Name of the Work	Agreement No	Tendered Amount	Date of Commencement	Stipulated date of completion	Value of work already done (Rs. In lakhs)	Value of balance work (Rs. In lakhs)	Probable date of completion	Remarks
1	2	3	4	5	6	7	8	9	10

**(I) WORKS TENDERED FOR**

Sr. No	Name of Work	Name and Address of Client	Tendered Amount (Rs. In Lakhs)	Time Limit	Probable when decision expected	Date expected	Other relevant details if any

Note:- This will be an online form and will be made available to bidders on the website during the preparation stage. Bidders will fill the required information in this form, online only.

**FORM NO . - II**

List of Plant and Machinery immediately available with the Tenderer for the work.....

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Sr No	Name of equipment	No.of Units	Kind and make	Capacity	Age and Condition	Present location	Remarks
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Note :- This will be online form and will be made available to bidders on the website during bid preparation stage. Bidders will fill the required information in this form, online only

**FORM NO . – III**

**DETAILS OF WORK SIMILAR CARRIED OUT BY CONTRACTOR**

Sr No	Name of work	Name and Address of the organisation for whom the work was done	Place and Country	Agreement No	Date of commencement	Tendered cost	Total cost work done	Date of completion	Principal features in brief
1	2	3	4	5	6	7	8	9	10

Note:- This will be online form and will be made available to bidders on the website during bid preparation stage. Bidders will fill the required information in this form, online only

**FORM NO .-IV**

Details of Technical Personnel available with the Contractor

Sr. No.	Name of Person	Designation	Qualifications	Whether working in field or office	Experience of similar work	period for which the person is working with the tenderer	Remarks
1	2	3	4	5	6	7	8

Note:- This will be online form and will be made available to bidders on the website during bid preparation stage. Bidders will fill the required information in this form, online only

**FORM NO . - V**

Statement showing work done in all classes of Electrical Works during last three years

Sr. No.	Name of work	Amount put to tender/tendered cost	Agreement No	Date of commencement	Amount of work done during last Three years			Amount of work still remaining to be executed
					2018-19	2019-20	2020-21	
1	2	3	4	5	6	7	8	9

### List of Technical Documents (to be attached with tender)

1. Tender/ Processing Fee - Online payment Receipt
2. Online receipt of EMD Payment
3. Scanned from original copy of valid electrical contractor licence issued by Industries, Energy & Labour Department, Government of Maharashtra.
4. Scanned from original copy of certificates as a valid registered electrical contractor in" A" class with the Public Works Department, Government of Maharashtra.
5. Scanned from original copy of valid GST registration certificate issued by competent authority.
6. Scanned from original copy of List of Tools, plant and Machinery available with Tenderer which will be exclusively for this work and list of Machinery proposed to be utilized on this work, but not immediately available and the manner in which it is proposed to procure.
7. Scanned from original copy of details of other work of E.I. Works tendered for and in hand as on the date of submission of the tender. The Certificate from the Heads of the Office/ Deptt. (Not below the rank of Executive Engineer) under whom the works are in progress should be enclosed
8. Scanned from Original Copy of Experience Certificate. in his own name of (i) a single work of similar nature and magnitude . OR (ii) Two works of similar nature and magnitude costing of each work 50% of Tender cost OR (iii) Three works of similar nature and magnitude costing of each work not less then 40% of Tender cost . At least one job of erecting High Mast poles must be executed.
9. Scanned from original copy of Details of Technical person on the roll of tenderer who will be exclusively spared for this work by the tenderer. (Note:- If Electrical Contractor License from I.E.&L Deptt., Govt of Maharashtra is issued then, recently renewed copy of Muster Roll issued by the Licensing Board should be attached in support)
10. Scanned from original copy of the documents showing Maximum Annual Turnover (in all classes of Electrical Engineering works ) during last Five financial years. (i.e. 2016-17, 2017-18, 2018-19, 2019-20 & 2020- 21) issued by C.A.
11. Scanned copy of Balance sheet & Profit & Loss Account of last Five financial years. (i.e. 2016-17, 2017-18, 2018-19, 2019-20 & 2020- 21) in support of Turnover Certificate.
12. Scanned from original copy of Professional Tax Registration / Professional Tax Enrolment Certificate.
13. Scanned from original copy of Registration of firm as Partnership Deed for Partnership firm & Power of Attorney in case of a firm tendering for work.

14. The documents, Annual Financial Turnover certified by C.A.
15. Details of Income Tax Circle or ward of the district in which the tenderer is assessed to Income Tax, Tenderer's PAN and complete postal address with Pin Code and telephone Numbers. Attested copy of Income Tax Return for the immediate previous financial year.
16. Undertaking on Letter Head that bidder has not been **Black List / Banned / Suspended /** by any Government / Semi Govt. / Authority
17. Bank Solvency Certificate of not less 50Lacs.
18. Latest updated MSME certificate
19. ESIC certificate
20. Turnover certificate by CA for last 5 years
21. All documents should be self signed before uploading.
22. All financial documents signed by C.A.

## **ANNEXURE B**

### **LETTER OF ACCEPTANCE**

**SUB :**

Sir,

I /We hereby tender for the execution of work specified in the under written memorandum within the time prescribed at the rates specified therein and in accordance in all respects with the specifications, designs, drawings and instructions supplied by you which we have read very carefully.

I /We hereby distinctly and expressly declare and acknowledge that before the submission of my/our tender. I /We have carefully followed the general instructions and read the detailed specifications and schedule of quantities and clearly understood all the condition of the contract. I /We have also seen the location where the said work to be done and made such investigation of the work required to be enable me /us complete the work successfully.

I /We agree to complete the work in \_\_\_\_\_ weeks from the date of award of the work.

I /We agree to keep the offer open for sixty days from the date of opening of tender.

YOUR'S FAITHFULLY,  
SIGNATURE.

SCOPE : This section of LETTER OF ACCEPTANCE is sent in duplicate to the vendors. The participating tenderer shall remove the original copy of this section and send the same with their detailed tender, clearly mentioning in their letter regarding this enclosure. This letter of acceptance signed by the tenderer shall form part of Articles of Agreement.

**FORM B-1**

**PERCENTGE RATE TENDER AND CONTRACTOR FOR WORKS**

**Maharastra Film Stage & Cultural  
Development Corporation Limited  
Film City, Goregaon (East),**

**General Rules and Directions for the Guidance.**

1. A works proposed to be executed by contract shall be noticed in a form of invitation to tender pasted on a board hung up in the office of the Dy. Engineer and signed by the Dy. Engineer, M.F.S. & C.D. Corp. Ltd, film city, Mumbai – 400 065.

This for will state the work to be carried out as well as the date submitting and opening tenders, and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender and the amount of security deposit to be deposited by the successions, and the percent, if any to be deduct from bills. It will also state weather a refund of a quarry fees, royalties, dues and ground rent will be granted. Copies of the specifications, designs and drawings, estimated rates, scheduled rates and any other documents required in connection with the work shall be signed by the Dy. Engineer for the purpose of identification and shall also be open for inspection by contractors at the office of the Dy. Engineer during office hours.

Where the works are proposed to be executed according to the specifications recommended by a contractor and approved by a competent authority on behalf of the MFSDCL of Maharashtra such specifications with designs and drawing shall from part of the accepted tender.

2. In the event of the tender being submitted by a firm, it must be signed by each partner there of and in the event of the absence of any partners it shall be signed on this behalf by a person holding a power of attorney authorizing him to do so.

2(A) (i) The contractor shall pay along with the tender the sum of Rs.16,500/- ( Rupees Sixteen Thousand Five Hundred only) as and by way of earnest money. The said amount shall not carry any interest what so ever.

ii) Subject to the provision in sub clause (ii) below the said amount of earnest money shall appropriated towards the amount of Security Deposit payable by him under condition in General Condition.

iii) If, after submitting the tender contractor withdraws his tender or modifies the same or if after acceptance his tender the contractor bills or not to furnish the balance of Security Deposit

without prejudice to any other rights answers at Corporation hereunder, or in law Corporation shall be entitled to foretaste full amount at the earnest money deposit.

iv) In the event of his tender not being accepted, the amount of earnest money deposited by the contractor shall, unless it is prior there to forfeited under the provisions of sub clause (iii) above, be refunded to him on him passing receipt therefore.

3. Receipts for payments made on account of any work, when executed by a firm, should also be signed by all the partners except where the contractors are described in their tender as a firm, in which case the receipt shall be signed in the name of the firm by one of the partners, or by some other person having authority to give official receipts for the firm.

4. Any person who submits a tender shall fill up the usual printed form stating at what percentage above or below the rates specified in schedule 'B' (memorandum showing items of work to be carried out) he is willing to undertake the work. Only one rate or such percentage on all the Estimated rates/Schedule rates shall be named. Tenders which propose any alteration in the works specified in the said form of invitation to tender, or in the time allowed for carrying out the work or which contain any other conditions, of any sort will be liable to rejection. No printed form of tender shall include a tender for more than one works but if contractor who wish to tender two or more works, they shall submit a separate tender for each. Tender shall have the name and number of the work to which they referrer, Written outside the envelope.

5. The Dy. Engineer or his duly authorized Assistant shall open tenders in the presence of contractors who have submitted tenders or their representatives who may be present at the time, and he will enter the amount of several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, the contractor shall for the purpose of identification sign copies of the specifications and other documents mentioned in rule 1. In the event of tender being rejected, the competent officer shall authorize the Treasury officers Scheduled Bank concerned to refund the amount of the earnest money deposited to the contractor making the tender, on his giving a receipt for the return of the money.

6. The Officer competent to dispose of the tenders shall have the right of rejecting all or any of the tenders.

7. No receipt for any payment alleged to have been made by a contractor in regard to any matter relating to this tender or the contract shall be valid and binding on MFSDCL unless it is signed by the Engineer.

8. The memorandum of work to be tendered for and the schedule of materials to be supplied by the department and their rates shall be filled in and completed by the office of the Dy. Engineer before the tender form is issued. If a form issued to an intending tenderer has not been so filled in and completed he shall request the said office to have this done before he completes and delivers his tender.
9. All work shall be measured net by standard measure and according to the rules and customs of the Public Works Department and their rates shall be without reference to any local customs
10. Under no circumstances shall any contractor be entitled to claim enhanced rates for items in his contract.
11. Every registered contractor should produce along with the tender certificate of registration as approved contractor in the appropriate class and renewal of such registration with the date of expiry
12. All corrections and additions or pasted slips should be initiated
13. The measurements of work will be taken according to the usual method in use in the Public Works Department and no proposal to adopt alternate methods will be accepted. The Dy. Engineer's decision as to what is the usual method in use in the Department will be final.
14. The tendering contractor shall furnish a declaration along with the tender showing all works for which he has already entered into contract, and the value of work that remains to be executed in each case on the date of submitting the tender.
15. Every tender shall furnish along with the tender, information regarding the income-tax circle or ward of district in which he is assessed to income-tax the reference to the number of assessment and the assessment year and a valid Income Tax clearance certificate.
16. In view of the difficult position regarding the availability of foreign exchange no foreign exchange would be released by the Department for the purchase of plant and machinery required for the execution of the work contracted for (GCB/PWD/CFR/1058-62517 dated (26-9-1959)
17. The contractor will have to construct shed for storing contractor and valuable materials issued to him under Schedule 'A' of the agreement, at the work site having double locking arrangement. The materials will be taken for use in the presence of the Departmental person. No materials will be allowed to be removed from the site of works.

18. The contractors shall also give a list of machinery in their possession and which they propose to use on the work.
19. Every unregistered contractor should furnish along with tender a statement showing previous experience and technical staff employed by him.
20. Successful tenderer will have to produce to the satisfaction of the accepting authority a valid and current license issued in the favour under the provision of Contract Labour (Regulation and Abolition Act 1973) before starting work, failing which acceptance of the tender will be liable for withdrawal and earnest money will be forfeited to MFSDCL.
21. The Contractor shall comply with the provisions of the Apprentices Act 1961 and the rules and orders issued there-under from time to time. If he fails to do so, his failure will be a breach of the contract and the Dy. Engineer, may, in his discretion cancel the contract. The contractor shall also be liable for any pecuniary liability arising on a account of violation by him of the provisions of the Act.

**22) ADDITIONAL SECURITY DEPOSIT: (Ref; GR No, BDG/2016/C. No 2 / Bldg 2 dated 12/2/2016) & (201603171748270318 date 17/03/2016) & 26/11/2018**

- i) If the rate quoted by the bidder in the tender is more than 10% below, with respect to the amount put to tender, then proper justification shall be given to the satisfaction of Tender Calling Authority, along with detailed work planning assuring quality adhering to specifications mentioned in the tender and completion within the time period allowed for the work.
- ii) If the rates quoted by the bidder in the tender are below with respect to the amount put to tender, the bidder will have to provide additional deposit in the form of Demand Draft towards Performance Security in Envelope No. 2 as below: For quoted rates below 1 to 10%: 1% of the amount put to tender for quoted rates below more than 10%: 1% of the amount put to tender e.g. if the rate quoted is 15% below shall be of [ 1% + (15%-10%)] that is 1% + 5 % =6% of the amount put to tender. **If tenderer's offer is more than 15% below the estimated cost put to tender, tenderer shall have to submit Additional Performance security deposit as specified below:**
1. **Tenderer's offer is up to 10% below the estimated cost put to tender 1%.**
  2. **Tenderer's offer is up to 15% below the estimated cost put to tender (15% -10% = 5%) 5%.**
  3. **Tenderer's offer is more than 15% below tendered have to submit (eg. If tenderer offered 19% below tendered have to submit (19-15% = 4% x 2= 8%) 8% Total (1% +5% +8%) 14%.**
- iii) Directives for submission and refund of additional Performance Security Deposit:

- a) Demand Draft shall be drawn on Government Nationalized bank or Scheduled Bank.
- b) The period of Demand Draft shall be up to minimum 3 months after the date of opening of Tender
- c) Original Demand draft shall be submitted in the sealed envelope mentioning the Name of work and Tender Notice No. to the office of Executive Engineer, within the period of 8 working days from the date of submission
- d) Demand Draft shall have bank's MICR and IFSC code clearly mentioned on it.
- e) In case of shortfalls in compliance of documents in the Envelope No. 1 the Demand Draft will be returned to the Bidder within 7 days from the date of opening of tender.
- f) After compliance of documents in Envelope No.1, Envelope No. 2 will be opened from which Demand Drafts of 2 bidders L1 and L2 will be retained and remaining will be returned within 7 days.
- g) After issuing Work Order to the lowest Bidder, the Demand Draft of the No.2 Bidder will be returned within 3 day

### Tender for the works

I / we hereby tender for the execution, for the MFSDCL of Maharashtra (hereinbefore and hereinafter referred to as 'Corporation') of the work specified in the under written memorandum within the time specified in such memorandum at

\_\_\_\_\_ percent below/above the estimated rates entered in Schedule 'B' showing items of work to be carried out and in accordance in all respects with the specifications, additional specifications, designs, drawings and instructions in writing referred to in Rule 1 hereof and as per the annexed conditions of the contract and agree as per clause 12 of the conditions of contract that when materials for the work are provided by the MFSDCL, such materials and the rate to be paid for them shall be as provided in Schedule 'A' hereto.

**In figures as well as in words.**

Seal of Contractor	Signature of contractor	
<b>MEMORANDUM</b>		
If several sub works are included they should be detailed in a separate list.	(a)	<b>General Description : Repairs of Street light at Filmcity</b>
	(b)	Estimated cost Rs. 1,24,78,195/-
The amount of earnest money to be deposited shall be in accordance with the provisions of paras 204 and 205 of the M.P.W. Manual.	(c)	Earnest money Rs. 2,00,000/-
This amount of earnest money to be deposited shall be in accordance with paras 211 and 212 of the M.P.W Manual.	(d)	<u>Security deposit</u>
	(i)	DD (Not less than the amount of earnest money)

	(ii)	Rs. 4,00,000/- To be deducted from current bills - 2%
	e)	Percentage, if any to be deducted from bills, so as to make up the total amount required as security deposit by the time, half the work as measured by the cost is done.
	f)	Time allowed to for the work from 03 calendar months from the date of work order to commence. (including monsoon)

2. I/We agree that the offer shall remain open for acceptance for a minimum period of 90 days from the date fixed for opening the same and thereafter until it is withdrawn by me/us by notice in writing duly addressed to the authority opening the tenders and sent by registered post AD or otherwise delivered at the office of such authority. The amount of earnest money shall not bear interest and shall be liable to be forfeited to the MFSDCL should I/We fail to (i) abide by the stipulation to keep the offer open for the period mentioned above or (ii) sign and complete the contract documents as required by the Engineer and furnish the security deposit as specified in item (d) of the memorandum contained --- paragraph (i) above within the time limit laid down in clause (1) of the annexed General Conditions of contract. The amount of earnest money may be adjusted towards the security deposit or refunded to me/us if so desired by me/us in writing, unless the same or any part thereof has been forfeited as aforesaid.

3. I/We have secured exemption from payment of earned money after executing the necessary bond in favour of the MFSDCL a true copy of which is enclosed herewith, should any occasion for forfeiture of earnest money for this work arise due to failure on my/our part to (i) abide by the stipulations to keep the offer open for the period mention above or (ii) sign and complete the contract documents and furnish to security deposit as specified in item (d) of the Memorandum contained in paragraph (i) above within the time limit laid down in clause (1) of the annexed General conditions of contract the amour payable by me/us may at the option of the Engineer, be recovered out of the amount deposited in lump sum for securing exemption in so far as the same may extend in terms of the said and in the event of the deficiency out of any other moneys which are due or payable to me/us by the MFSDCL under any other contract or transaction of any nature whatsoever or otherwise.

4. Should this tender be accepted I/We hereby agree to abide by and fulfill all the terms and provisions of the conditions of contract annexed here so far as applicable and in default thereof to forfeit and pay to MFSDCL the sums of money mentioned in the said conditions.

## **CONDITIONS OF CONTRACT**

**Clause 1 :** The person/persons whose tender may be accepted (hereinafter called the contractor, which expression shall unless excluded by or repugnant to the context include his heirs, executors, administrators and assigns) shall (A) within 10 days (which may be extended by the Managing Director concerned upto 15 days if the Managing Director concerned upto 15 days if the Managing Director thinks fit to do so) of the receipt by him of the notification of the acceptance of his tender deposit with the Dy. Engineer in cash or Govt. securities endorsed to the Dy. Engineer (if deposited for more than 12 months) of sum sufficient which will made up the full security deposit specified in the tender or (B) Permit MFSDCL at the time of making any payment to him for work done under the contract to deduct such as will amount to \_\_\_\_\_percent of all moneys so payable such reductions to be held by MFSDCL by way of security deposit). Provided always that in the event of the contractor depositing a lump sum by way of security depot as contemplated at (A) above, then and in case, if the sum so deposited shall not amount to \_\_\_\_\_ percent of the total estimated cost of the work, it shall be lawful for MFSDCL at the time of making any payment to the contract for work one under the contract to make up the full amount of \_\_\_\_\_ percent by deducting a sufficient sum from every such payment as last aforesaid until the full amount of the security deposit is made up. All compensation or other sums or money payable by the contractor to MFSDCL under the terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit or from the interest arising there from, or from any sums which maybe due or may become due MFSDCL to the contractor under any other contract to the contractor under any other contract or transaction of any nature on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall, within ten days thereafter, make good in cash or MFSDCL securities endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof. The Security Deposit referred to, when paid in cash may, at the cost of the depositor, be converted into interest bearing securities provided that the depositor has expressly desired this in writing. The Security Deposit will not be accepted in form of insurance company) bonds as per MFSDCL orders contained in No. CCM/PWD/CAT 4250 Dt. 27.2.1965.

the amount of the security deposit to be paid in a lumpsum within the period specified at (A) above is not paid the tender/contractor already accepted shall be considered as cancelled and legal steps taken against the contractor for recovery of the amounts. The amount of the security deposit lodged by a contractor shall be refunded along with the payment of the final bill, if the date upto which the contractor has agreed to maintain the work in good order is over. If such date is not over, only

The amount of security deposit retained by the MFSDCL shall be released after expire of period upto which the contractor has agreed to maintain the work in good order is over. In the event of the contractor failing or neglecting to complete rectification work within the period upto which the contractor has agreed to maintain the work in good order, then, subject to provisions of clauses 17

and 20 hereof the amount of Security Deposit retained by MFSDCL shall be adjusted towards the excess cost incurred by the department on rectification work.

**Clause 2 :** The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be reckoned from the on which the order to commence work is given to the contractor. The work shall through the stipulated period of the contract be proceeded with, with all due diligence (time being deemed to be the essence of the contract on the part of the contractor) and the contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Managing Director (whose decision in writing shall be final) may decide, of the amount of the estimated cost of the whole work as shown by the tenderer for every day that the work remains uncompleted, or unfinished after the proper dates. And further to ensure good progress during execution of the work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month to complete.

**Note :** The quantity of the work to be done within a particular time to be specified above shall be fixed and inserted in the blank space kept for the purpose by the officer competent to accept the contracts after taking into consideration the circumstances of each case and abide by the programme of detailed progress laid down by the Dy. Engineer.

In the event of the contractor failing to comply with this conditions he shall be liable to pay as compensation an amount equal to one percent or such smaller amount as the Managing Director (whose decisions in writing shall be final) may decide of the said estimated cost of the whole work for every day that the due quantity of work remains incomplete provided always that the total amount of compensation to be paid under the provisions of the clause shall not exceed 10 percent of the estimated cost of the work shown in the tender. The Managing Director should be the final authority in this respect irrespective of the fact that the tender is accepted by the Corporation.

**Clause 3 :** In any case in which under any clause of this contract the contractor shall have rendered himself liable to pay compensation amounting to the whole of this security deposit whether paid in one sum or deducted by installments or in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause the Dy. Engineer on behalf of the Corporation, shall have power to adopt any of the following courses, as he any deem best suited to the interest of Corporation:-

(a) To remind the contract (for which rescission notice in writing to the contractor under the head of Dy. Engineer shall be conclusive evidence) and in that case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of Corporation.

(b) To carry out work or part of the work departmentally debiting the contractor with the best cost of the work, expenditure occurred on tools and plant, and charges on additional supervisory staff including the cost of work charged establishment employed for getting the un-executed part of the work completed and crediting him with the value of the work done departmentally in all respects

in the same manner and the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Dy. Engineer as to the costs and other allied expenses so incurred and as to the value of the work so done departmentally shall be final and conclusive against the contractor.

(c) To order that the work of the contractor be measured up and to take such part thereof as shall be unexecuted out of his hand and to give it to another contractor to complete, in which case all expense incurred on advertisement for fixing a new contract agency, additional supervisory staff including the cost of work charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Dy. Engineer as to all the cost of the work and other expenses incurred as aforesaid for or in getting the unexpected work done by the new contractor and as to the value of the work so done shall be final and conclusive against the contractor.

In case the contract shall be rescinded under clause (a) above the contractor shall not be entitled to recover or paid, any sum for any work therefore actually performed by him under this contract unless and until the Dy. Engineer shall have certified in writing the performance of the such work and the amount payable to him in respect either of the courses referred to in clause (b) or (c) being adopted and the cost of the work executed departmentally or through a new contractor and other allied expenses exceeding the value of such work credited to the contractors the amount of excess shall be deducted from any money due to the contractor, by Corporation under the contract or provided, however, the contractor shall have no claim against Corporation even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clauses (a), (b) or (c) is adopted by the Dy. Engineer, 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 account of or with a view to the execution of the work or the paper performance of the contract.

**Clause 4:** If the progress of any particular portion of the work is unsatisfactory the Dy. Engineer shall notwithstanding that the general progress of the work is in accordance with the conditions mentioned in clause 2, be entitled to take action under clause 3(b) after giving the contractor 10 days notice in writing. The contractor will have no claim for compensation, for any loss sustain by him owing to such action.

**Clause 5:** In any case in which any of the powers conferred upon the Dy. Engineer by clause 3 and 4 hereof shall have become exercisable and the same shall not have been exercised the non-exercise thereof shall not constitute a waving of any of the conditions hereof and such powers shall not withstanding be exercisable in the event of any future case of default by the contractor for which

under any clause hereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the Dy. Engineering taking action under sub-clause (a) or (c) of clause 3, he may, if he so desires, take possession of all or any tools & plant, materials and stores in or upon the work of the site thereof or belonging to the contractor, or procured by him 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 contract rates not being applicable at current market rates to be certified by the Dy. Engineer whose certificate thereof shall be final. In the alternative the Dy. Engineer may, after giving notice in writing to the contractor or his clerk of the work, foreman or other authorized agent require him remove such tools & plant, materials, or stores from the premises within a time to be specified in such notice, and in the event of the contractor failing to comply with any such requisition, the Dy. Engineer may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and at his risks in all respects and the certificate of the Dy. Engineer as to the expense of any such removal and the amount of the proceeds and expense of any such sale shall be final and conclusive against the contractor.

**Clause 6** : If the contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other ground he shall apply in writing to the Dy. Engineer before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as aforesaid or on which the cause for asking for extension occurred, whichever is earlier and the Dy. Engineer or in the opinion of Managing Director as the cause may be if in his opinion, there were reasonable ground for granting an extension, grant such extension as he thinks necessary or proper. The decision of the Managing Director, Jt. M.D. Dy. Engineer in this matter shall be final.

**Clause 7** : On the completion of the work the contractor shall be furnished with a certificate by the Deputy Engineer (hereinafter called the Engineer-in-charge) of such completion but no such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus material and rubbish, and shall have cleaned off, the dirt from all wood work, doors, windows, wall, floor or other parts of any building in or upon which the work has been executed or of which he may have had possession for the purpose of executing the work, nor until the work shall have been measured by the Engineer- in charge or where the measurement have been taken said measurements being binding and conclusive against contractor. If the contractor shall fail to comply with the requirements of this clause as to the removal of scaffolding surplus materials and rubbish and cleaning of dirt on or before the date fixed for the completion of the work the Engineer-in-charge may at the expense of the contractor, remove such scaffolding, surplus materials and rubbish, and dispose off the same as he thinks fit and clean off such dirt as aforesaid and the contractor shall forth with pay the amount of all expenses so incurred, but shall have no claim in respect of any such

scaffolding or surplus materials as aforesaid except for any sum actually realized by the state thereof.

**Clause 8** : No payment shall be made for any work estimated to cost less than rupees one thousand till after the whole of work have been completed and a certificate of completion given. But in the case of works estimated to cost more than rupees one thousand the contractor shall on submitting a monthly bill therefore be entitled to receive payment proportionate to the art of the work than approved and passed by the Engineer-in-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actual done and completed and shall not precede the Engineer-in-charge from requiring any bad, unsound imperfect or unskillful work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in any respect of the occurring of any claim nor shall it conclude, determine or effect in any other way the paper owners of the Engineer-in charge as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or effect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for the completion of the work, otherwise the Engineer-in-Charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties.

**Clause 9** : The rates for several items of work estimated to cost more than Rs. 1000 agreed to within, shall be valid only when the item concerned is accepted as having been completed fully in accordance with the sanctioned specifications. In cases where the items of work are not accepted as so completed by the Engineer-in-charge may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on account bills.

**Clause 10** : A bill shall be submitted by the contractor in each month or before the date fixed by the Engineer-in-charge for all work executed in the previous month, and the Engineer-in-charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within ten days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid, the Engineer-in-charge may depute a subordinate to measure upto the said work in the presence of the contractor or his duly authorized agent whose countersignature to the measurement list shall be sufficient warrant, and Engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects.

**Clause 11** : The contractor shall submit all bills on the printed forms to be had on application at the office of the Engineer-in-charge. The charges to be made in the bills shall always be entered at the

rates specified in the tender or in the case of any extra work ordered in pursuance of these condition, and not mentioned or provided for in the tender at the rates hereinafter provided for such work.

**Clause 12** : If the specification or estimate of the work provides for the use of any special description of material to be supplied from the store of the Public Works Dept. store or if it is required that the contractor shall use certain stores to be provided by the Engineer-in-charge. (such material and stores and the prices to be charged therefore s hereinafter mentioned being so far as practicable for the convenience of the contractor but not so as in any way to control the meaning or effect of this contract specified in the schedule or memorandum hereto annexed) the contractor shall be supplied with such materials and stores as may be required from time to time to be used by him for the purpose of the contract only and the value of the full quantity of the materials and stores so supplied shall be set off or deducted from any sums then due, or thereafter to become due to the contractor under the contract, or otherwise, of from security deposits or proceeds of sale thereof if the security deposit is held in MFSDCL securities, the same or a sufficient portion thereof shall in that case be sold for the purpose. All materials supplied to the contractor shall remain the absolute property of Corporation and shall on no account be removed from the site of the work, and shall at all times be open for inspection by the Engineer-in-charge. Any such materials unused and in perfectly good condition at the time of completion or determination of the contract shall be returned to the Corporation if the Engineer-in-charge so requires by a notice in writing given under his hand but the contractor shall not be entitled to return any such materials except with consent of the Engineer-in-charge and he shall have no claim for compensation on account of any such material supplied to him as aforesaid but remaining unused by him or any wastage in or damage to any such materials.

**Clause 12 (A)** : All stores of controlled materials such as cement, steel etc. supplied to the contractor by MFSDCL should be kept by the contractor under lock and key and will be accessible for inspection by the Dy. Engineer or his agent at all the times.

**Clause 13** : The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner, and both as regards materials and every other respect in strict accordance with specifications. The contractor shall also conform exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer-in-charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office. or on the site of work during office hours. The contractor shall be entitled to receive three sets of contract drawings and working drawings as well as one certified copy of the accepted tender along with the work order free of cost. Further copies of contract drawings and working drawings if required by him, shall be supplied at the rate of Rs.

100 per set of contract drawings and Rs. 100 per working drawing except where otherwise specified.

**Clause 14** : The Engineer-in-charge shall have power to make any alteration in or additions to the original specifications, drawings, designs and instructions that may appear to him to necessary or advisable during the progress of the work and the contractor shall be bound to carry out the working the progress of the work and the contractor shall be bound to carry out the working accordance with any Instructions in this connection which may be given to him in writing signed by the Engineer-in-charge and such alteration shall not invalidate the contract, and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work, and at the same rates as are specified in the tender for the main work. And if the additional and altered work includes any class of work for which no rate is specified in this contract, then such class of work shall be carried out at the rates entered in the Schedule of Rates of the Division or at the rates mutually agreed upon between the Engineer-in-charge and the contractor, whichever are lower. If the additional or altered work for which no rate is entered in the schedule of Rates of the Division is ordered to be carried out before the rates are agreed upon than the contractor shall within seven days of the date of receipt by him of the order to carry out the work, inform the Engineer-in-charge of the rate which it is his intention to charge for such class of work. And if the Engineer-in-charge does not agree to this rate he shall by notice in writing be at liberty to cancel his order to carry out such class of work and arrange to carry out in such manner as he may consider advisable provided always that if the contractor shall commence work or issue any expenditure in regard thereto before the rates shall have been determined lastly hereinbefore mentioned than in such a case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of termination of the rate as aforesaid according to such rate or rates as shall be filed by the Engineer incharge. In the event of a dispute the decision of the Managing Director of the Corporation will be final.

Where, however, the work is to be executed according to the designs, drawings and specifications recommended by the contractor and accepted by the competent authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.

The time limit for the completion of the work shall be extended in the proportion that increase in its cost occasioned by alterations or additions bears to the cost of the original contract work and the certificate of the Engineer-in-charge as to such.

**Clause 15**

(1) At any time after the execution of the contract documents the Engineer shall or any reason what-so –ever (other than default on the part of the contractor for which the MFSDCL is entitled to rescind the contract) desires that the whole or any part of the work specified of the tender should be suspended for any period or that the whole or part of the work should not be carried out, at all the shall give to the contractor a notice in writing of such desired and upon the receipt of such notice the contractor shall forthwith suspend or step the work wholly or in part as required, after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injure to the work already done or endanger the safety thereof provided that the decision of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor. The contractor shall have no claim to any payment or compensation what-so-ever by reason of or in pursuance or any notice as aforesaid, on account of any suspension, stoppage of curtailment except to the extent specified hereinafter.

(2) Where the total suspension of work ordered as aforesaid continued for a continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual obligations under the contract so far as it pertains to the un-executed part of the work by giving a 10 days prior notice in writing to the engineer, within 30 days of the expiry of the said period of 90 days, of such intention and requiring the Engineer to record the final measurement of the work already done and to ay final bill Upon giving such notice the contractor shall be deemed to have been discharged from his obligations to complete the remaining unexecuted work under his contractor. On receipt of such notice the Engineer shall proceed to complete the measurements and make such payment as may be finally due to the contractor within a period of 90 days from the receipt of such notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.

(3) where the Engineer required to contractor to suspended the work for a period in excess of 30 days at any time or 60 days in the aggregate, the contractor shall be entitled to apply to the Engineer within 30 days of the resumption of work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained idle on the site or on the account of his having and to pay the salary or wages of labour engaged by him during the said period of suspension provided always that the contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate or such suspension or in respect or any suspension whatsoever occasioned by unsatisfactory work or any other default on his part. The decision of the Engineer in this regard shall be final and conclusive against the contractor.

(4) In the event of –

- (i) Any total stoppage of work on notice from the Engineer under Sub-clause (1) in that behalf.
- (ii) Withdrawal by the contractor from the contractual obligations complete the remaining unexecuted work under sub-clause (2) on account of continued suspension of work for a period exceeding 90 days.

**OR**

(iii) Curtailment in the quantity of item originally tendered on account of any alteration, omission on substitution in the specifications, drawings, designs or instructions under clause 14(1) where such curtailment exceeds 25% in quantity and the value of the quantity curtailed beyond 25 percent at the rates for the item specified in the tender is more than Rs. 5000/-

It shall be open to the contractor, within 90 days from the service of (i) the notice of storage of work or (ii) the notice of withdrawal from the contractor obligations under the contract on account of the continued suspension of work or (i) notice under the clause 14(1) resulting in such curtailment to produce to the Engineer satisfactory documentary evidence that he had purchased or agreed to purchase material for use in the contracted work, before receipt by him of the notice of stoppage, suspension or completion and require the Corporation to take over on payment such material at the rates determined by the Engineer, provided, however, such rate shall in no case exceed the rates at which the same was acquired by the contractor. The Corporation shall thereafter take over the material so offered, provided the quantities offered, are not an excess of the requirements of the unexecuted work as specified in the accepted tender and are of quality and specifications approved by the Engineer.

**Clause 15 A** : The contractor shall not be entitled to claim any compensation from Corporation for the loss suffered by him on account of delay by Corporation in the supply materials entered in Schedule A where such delay by Corporation in the supply of materials entered in Schedule A where such delay is caused by

- (i) Difficulties relating to the supply of railway wagons.
- (ii) Force majeure.
- (iii) Act of God.
- (iv) Act of enemies of the State or any other reasonable cause beyond the control of Corporation.

In the case of such delay in the supply of materials, Corporation shall grant such extension of time for the completion of the work as shall appear to the Dy. Engineer to be reasonable in accordance with the circumstances of the case. The decision of the Managing Director as to the extension of time shall be accepted as final by the contractor.

**Clause 16** : Under no circumstances whatever shall the contractor be entitled to any compensation from Corporation on any account unless the contractor shall have submitted a claim in writing to the Engineer-in-charge within one month of the case of such claim occurring.

**Clause 17** : If at any time before the security deposit or any part thereof is refunded to the contractor it shall appear to the Engineer-in-charge or his subordinate in charge of the work, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of inferior quality, 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 are otherwise not in accordance with the contract, it shall be lawful for the Engineer-in-charge to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials or articles complained or may have been inadvertently passed, certified and paid for, the contractor shall be bound forthwith to rectify, or remove and reconstruct the work so specified in whole or in part as the case may require or if so required, shall remove the materials or articles so specified and provided other proper and suitable materials or articles at his own charge and cost and in the event of his falling to do so within a period to be specified by the Engineer-in-charge in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimate for every day not exceeding 10 days, during which the failure so continues and in the case of any such failure the Engineer-in-charge may rectify or remove and re-execute the work or remove, and replace the materials or articles complained of as the case may be may be at the risk and expenses in all respects of the contractor. Should the Engineer-in-charge consider that any such enter work or materials as described above may be accepted or made use of it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

**Clause 18** : All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer-in-charge and his subordinates, and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-in-charge and his subordinates to visit the work shall have been given to the contractor, either himself be present to receive orders and instructions or have responsible agent duly accredited in writing present for that purpose. Orders given to the contractor's duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

**Clause 19** : The contractor shall give not less than five days notice in writing to the Engineer-in-charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions there of taken before the same is so covered up or placed beyond the reach of measurements and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Engineer-in-charge or his subordinate in charge of the work, and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractor's expenses, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.

**Clause 20** : If during the period 06 months from the date of completion as certified by the Engineer-in-charge pursuant to clause 7 of the contract or 06 months after commissioning the work whichever is earlier in the opinion of the Dy. Engineer, the said work is defective in any manner whatsoever, the contractor shall forthwith on receipt of notice in that behalf from the Dy. Engineer, duly commence execution and completely carry out a at his cost in every respect all the work that may be necessary for rectifying and setting right the defects specified therein including dismantling and reconstruction of unsafe portions strictly in accordance with and in the manner prescribed and under the supervision of the Dy. Engineer, in the event of his contractor falling or neglecting to commence execution of the said rectification work within the period prescribed therefore in the said notice and/or to complete the same as to re-said as required by the said notice, the Dy. Engineer get the same executed and carried out departmentally or by any other agency at the risk on account and at the cost of the contractor. The contractor shall forthwith on demand pay to the Corporation the amount of such costs, charges and expenses sustained or incurred by the Corporation of which the certificate of the Dy. Engineer shall be final and binding on the contractor. Such costs, charges and expenses shall be deemed to be arrears of land revenue and in the event of the contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the Corporation; the same may be recovered from the contractor as arrears of land revenue. The Corporation shall also be entitled to deduct the same from any amount which may then be payable or which may thereafter become payable by the Corporation to the contractor either in respect of the said work or any other work whatsoever conform the amount of security deposit retained by Corporation. The defect liability period in particular for water proofing treatment (Building works) shall be 7 years.

**Clause 21** : The contractor shall supply at his own cost all material (except such special materials if any as may in accordance with the contract, be supplied from the corporation stores), plant, tools, appliances, implements, ladders, cordage, tackle scaffolding and temporary works requisite or proper for the proper execution of the work, whether, in the original, altered or substituted from, and whether included in the specification or other documents forming part of the contract or referred to in these conditions or not and 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 be satisfied, or which he is entitled to require together with the 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 or the materials, falling which the same may be provided Engineer-in-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposits or the proceeds of sale thereof , or of a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accident and shall also be bound to bear the expenses of defense of every suit, action or other legal proceeding 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 consent of the contractor be paid for compromising any claim by any such person.

List of machinery in contractor's possession & which they propose to use on the works should be submitted along with the tender.

**Clause 21A** : The contractor shall provide suitable scaffolds and working platforms gangways and stairways and shall comply with the following regulations in connections herewith.

- (a) Suitable scaffolds shall be provided for workman for all works that cannot be safely done from a ladder or by other means.
- (b) A scaffolds shall not be constructed, taken down or substantially altered except –
  - (i) under the supervision of a competent and responsible person; and
  - (ii) as far as possible by competent workers possessing adequate experience in this kind of work-
- (c) All scaffolds and appliances connected therewith and ladders shall-
  - (i) be of sound material.
  - (ii) be of adequate strength having regard to the loads and strains to which they will be subjected, and
  - (iii) be maintained in proper condition.
- (d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.
- (e) Scaffolds shall not be over-loaded-and so far as practicable the load shall be evenly distributed.
- (f) Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffold.
- (g) Scaffold shall be periodically inspected by the competent person.
- (h) Before allowing a scaffold to be used by his workmen the contractor shall, whether the scaffold has been erected by his workman or not, take steps to ensure that it complies fully with the regulation here-in-specified.
- (i) Working platform, gangways stairways shall-
  - (i) be so constructed that no part thereof can sag ----
  - (ii) be so constructed and maintained having regard to the prevailing conditions as to reduce as far as practicable ----- of persons tripping or slipping, and
  - (iii) be kept free from any unnecessary obstruction.
- (i) In the case of working platform, gangways, working places and stairways at the height exceeding 2 meters (to be specified)

- (i) every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.
- (ii) every working platform and gangway, shall have adequate width and
- (iii) every working platform gangway, working place and stairway shall suitably fenced.
- (k) Every opening in the floor of a building or in a working platform shall except for the time and to the extent required to allow the excess of persons or the transport or shifting of materials be provided with suitable means to prevent the fall of persons or materials.
- (l) When person are employed on roof where there is danger of falling from a height exceeding 3 meters suitable precautions shall be taken to prevent the fall of persons or materials. (to be prescribed).
- (m) Suitable precautions shall be taken to prevent person being struck by articles which might fall from scaffold or other working places.
- (n) Safe means of access shall be provided to all working platforms & other working places.
- (o) The contractor (s) will have to make payments to the labourers as per minimum Wages Act 1948.

**Clause 21B** : The contractor shall comply with the following regulations as regards the Housing Appliances to be used by him.

- (a) Housing machine and tackle, including their attachments, anchorages and supports shall -
  - (i) be of good mechanical construction, sound material and adequate strength and free from patent defect.
  - (ii) be kept in good repair and in good working order.
- (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.
- (c) Housing machine and tackle shall be examined and adequately tested after erection on the site and before use and be re-examined in position at intervals to be prescribed by the Corporation.
- (d) Every chain, ring, hook, shackle swivel and pulley block and used in housing or lowering materials or as a means of suspension to shall be periodically examined.
- (e) Every crane driver or hoisting appliance operator shall be properly qualified.
- (f) No person who is below the age of 21 years shall be in control of any hoisting

machine, including any scaffold which, or give signals to the operator.

- (g) In the case of every hoisting machine and of every chain, ring, hook, shackle, swivel pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means.
- (h) Every hoisting machine and all gear referred to in preceding regulation shall be plainly marked with the safe working load.
- (i) No part of any hoisting machine or of any gear referred to in regulation(g) above shall be loaded beyond the safe working load except for the purpose of testing.
- (j) No part of any hoisting machine or of any gear referred to in regulation(g) above shall be loaded beyond the safe working load except for the purpose of testing.
- k) Motors, gearing transmissions, electric wiring and other dangerous part or hoisting appliances shall be provided with efficient safeguards.
- (l) Housing appliances shall be provided with such means as will reduce to minimum & the risk of the accidental descent of the load.
- (m) Adequate precaution shall be taken to reduce to a minimum the risk of any part of a suspended load becoming accidentally displaced.

**Clause 22** : The contractor shall be set fire to any standing jungle trees, brush wood or grass without a written permit from the Dy. Engineer.

When such permit is given, and also in all cases, when destroying cut down trees brushwood, grass etc. By fire; the contractor shall take necessary measure to prevent such fire spreading to or otherwise damaging surrounding properly.

The contractor shall make his own arrangements for drinking water for the labour employed by him.

**Clause 23** : Compensation for all damages done intentionally or unintentionally by contractor's labour whether in or beyond the limits of Corporation properly including any damage caused by the spreading of fire mentioned in clause 22 shall be estimated by the Engineer-in-charge or such other officer as he may appoint and the estimate of the Engineer-in-charge subject to the decision of the Managing Director on appeal shall be final and the contractor- shall be bound to pay the amount of the assessed compensation on demand, failing which, the same will be recovered from the contractor as damages in the manner prescribed in clause 1 or deducted by the Engineer-in-charge from any sums that may be due or become due from Corporation to contractor under this contract or otherwise.

The contractor shall bear the expenses of defending any action or other legal proceeding that may be brought by any persons for injury sustained by him giving to neglect of precautions to prevent the

spread of fire and he will pay any damages and count that may be awarded by the court in consequence.

**Clause 24** : The Employment of female labours on works in neighbor of soldier barracks should be avoided as far as possible.

**Clause 25** : No work shall be done on a Surety without the sanction writing of the Engineer-in-charge.

**Clause 26** : The contract shall not be assigned or sublet without the written approval of the Engineer-in-charge. And if the contractor's all assign or sublet the contract, or attempt so to do, or become insolvent or commence any proceeding to get himself adjudicated and insolvent or make any composition with his creditors, or attempt so to do or if bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise, shall either directly or indirectly be given, promised or offered by the contractor or any of his servants or agents to any public officer or person in the employ of MFSDCL in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Corporation and the same consequences shall ensure as if the contractor had been rescinded under Clause 3 hereof and in addition the contractor shall not be entitled to recover or be paid for any work thereof actually performed under the contract.

**Clause 27** : All sums payable by a contractor by way of compensation under any of these conditions shall be considered as a reasonable compensation to be applied of the use of Corporation without reference to the actual loss or damage sustained, and whether any damage has or has not been sustained.

**Clause 28** : in the case of tender by partners, any change in the constitution of a firm shall be forthwith notified by the contractor to the Engineer-in-charge for his information.

**Clause 29** : All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Managing Director of the Corporation, for the time being, who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

**Clause 30** : Except otherwise specified in the contract and subject to the powers delegated to him by Corporation under the Code, rules then in force, the decision of the Managing Director of the Corporation for the time being shall be final, conclusive, and binding on all parties to the contract

upon all questions relating to the meaning of the specifications, designs drawings and instructions herein before mentioned and as to the quality or workmanship or materials used on the work, or as to any other question, claim, right, or thing whatsoever, work, or as to any other question, claim, right, or thing whatsoever if any way arising out of or relating of the contract, design, drawings, specifications, estimated, instructions, orders, or these conditions, or otherwise concerning the works, or the execution, or failure to execute the same, whether arising during the progress of the work, or after the completion or abandonment thereof.

**Clause 31** : The Contractor shall obtain from the Departments stores, all stores and articles of European or America manufacture which may be required for the work, or and part thereof or in making up any articles required therefore in connection therewith unless he has obtained permission in writing from the engineer-in-charge to obtain such stores and articles elsewhere. The value of such stores and articles as may be supplied to the contractor by the Engineer-in-charge will be debited to the contractor in his account at the rates shown in the schedule, in form A attached to the contractor and if they are not entered in the said schedule, they shall be debited to the contract and if they are not entered in these aid schedule, they shall be debit to him at cost prime which for the purpose of this contract shall include the cost of damage and other expenses whatsoever which she have been incurred in obtaining delivery of the same at be stores aforesaid.

**Clause 32** : When the estimate on which a tender is made include lump sums in respect of parts of the work the contractor shall be entitled to payment respect of the items of work involved or the part or ----- question at the same rates are payable under this contract for each item, or if the part of work in quest on is not of the opinion.

Engineer-in-charge capable of measurement, the Engineer- in-charge may as his discretion pay the lump sum amount entered in the estimate and the certificate in writing of the Engineer-in-charge shall final and conclusive against the contractor with regard to any sum or sums payable to him under the provision of this clause.

**Clause 33** : In the case of any class of work for which there is not such specification as is mentioned in rule 1 such work shall be carried out in accordance with the Divisional specifications, and in the event of there being no Divisional specification, then in such case the work shall be carried out in all respects in accordance with all respects in accordance with all instructions and requirements of the Engineer-in-charge.

**Clause 34** : The expression 'works' or 'works' where used in these conditions shall unless there be something in the subject or context repugnant to such construction, be construct to mean the work or works contracted to be executed under or in virtue of the contract, whether temporary or additional.

**Clause 35** : The percentage referred to in the tender shall be deducted from/added to the gross amount of the bill before deducting the value of any stock issued.

**Clause 36** : All quarry fees, royalties octroi dues and ground rent for stacking materials, of any should be paid by the contractor, who will however be entitled to a refund of such of the charges as are permissible under rules on obtaining a certificate from the Engineer-in-charge that the materials were required for use on Corporation work.

**Clause 37** : The contractor shall be responsible for and shall pay any compensation to his workmen payable under the workman's Compensation Act 1923 (VIII of 1923) (hereinafter called the said for injuries caused to the workmen. If such of section 12 of the said Act on behalf of the contractor, it shall be recoverable by Corporation from the contractor under sub-section (2) of the said section. such compensation shall be recovered in the manner laid down in Caused above.

**Clause 37A** : The contractor shall be responsible for and shall pay the expenses of providing medical aid to any workmen who may suffer a bodily injury as a result of an accident. If such expenses are incurred by Corporation the same shall be recoverable from the contractor forthwith and be deducted without prejudice to any other remedy of Corporation form any amount due or that may become due to the contractor.

**Clause 37B** : The contractor shall provide all necessary personal safety equipment and first aid apparatus available for the use of person employed on the site & shall maintain the same in condition suitable for immediate use at any time and shall comply with the following regulations in connection therewith.

- (a) The workers shall be required to use the equipment so provided by the contractor and the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.
- (b) When work is carried on in proximity to any place where there is a risk or drawing all necessary equipment shall take adequate steps to ensure proper use of the equipment by those concerned.
- (c) Adequate provision shall be made for prompt ----- treatment of all injuries likely to be sustained during the course of the work

**Clause 37C** : The Contractor shall duly comply with the provisions of The Apprentices Act. 1961(III of 1961) the rules made there under and the orders that may be issued from time to time under the Act the said rules and on his failure or neglect to do so he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

**Clause 38 :**

(1) Quantities show in the tender are approximate and no claim shall be entertained for quantities of work executed being either more or less than those entered in the tender or estimate.

(2) Quantities in respect of the several items shown in the tender are approximate and no revision in the tendered rate shall be permitted in respect of any of the items so long as subject to any special provision contained in the specifications prescribing a different percentage of permissible variation the quantity of the item does not exceed the tender quantity by more than 25 percent and so long as the value of the excess quantity beyond this limit at the rate of the item specified in the tendered is not more than Rs. 5000/-

(3) The contractor shall if ordered in writing by the Engineer so to do, also carry out any quantities in excess of the limit mentioned in sub clause (1) hereof on the same conditions as and in accordance with the specifications in the tender and at the rates (i) derived from the rates in the current schedule of rates and in the absence of such rates. (ii) at rate prevailing in the market the rates increased or decreased as the case may be by the percentage which the total tendered bears to the estimated cost of the work as put to tender based upon the schedule of rates applicable to the year in which the tenders were invited. For the purpose of operation of this clause this cost shall be taken to be

Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_  
\_\_\_\_\_ only.)

(4) Claims arising out of reduction in the tendered quantity of any item beyond 25 percent will be governed by the provision of clause 15 only when the amount of such reduction beyond 25 percent at the rate of the item specified in the tender is more then Rs. 5000/- This clause is not applicable to extra items.

(5) There is no change in the rate if the excess is less than or equal to 25% of the tendered quantity, but the value of the excess work at the Tendered rates does not exceed Rs. 5000/-

(6) The quantities to be paid at tendered rate shall include.

(a) Tendered quantity plus.

(b) 25% excess of the tendered quantity or the excess quantity of the value of Rs. 5000/- at the tendered rate whichever is more.

(6) The quantities to be paid at tendered rate shall include.

(a)	Tendered quantity plus.
(b)	25% excess of the tendered quantity or the excess quantity of the

value of Rs. 5000/- the tendered rate whichever is more.
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**Clause 39** : He contractor shall employ any famine, convict or other labour of a particular kind or class if ordered in writing to do so by the Engineer-in-charge.

**Clause 40** : No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or in the case of clearance works, on account of any delay in according of sanction of estimates.

**Clause 41** : No. compensation shall be allowed for any delay in the execution of the work on account of water, standing in borrow pits or compartments. The rates are inclusive for hard or cracked soil excavation in mud sub-soil, water standing in borrows pits and no claim for an extra rate shall be entertained unless otherwise expressly specified.

**Clause 42** : The contractor shall not enter upon or commence any portion of work except with the written authority and instructions of Engineer-in-charge or his subordinates in charge of the work. Falling such authority the contractor shall have no claim to ask for measurements of or payments for work.

**Clause 43**

- (i) NO contractor shall employ any person who is under the age of 18 years.
- (ii) No contractor shall employ donkeys or other animals with breeching of string or thin rope. The breeching must be least three inches wide a and should be of tape (Newar).
- (iii) No animal suffering from sores, lameness or emaciation or which is immature shall be employed on the work.
- (iv) The Engineer-in-charge or his Agent is authorized to remove from the work any person or animal found working which does not satisfy there conditions and no responsibility shall be accepted by MFSDCL for any delay caused in the completion of the work by such removal.
- (v) The contractor shall pay fair and reasonable wages to the workmen employed by him, in the contract undertake by him. In the event of any dispute arising between the contractor and his workmen on the grounds that the wages paid are not fair and reasonable. The dispute shall be referred without delay to the Dy. Engineer who shall decide the same. The decision of the Dy. Engineer shall be conclusive and binding on the contractor but such decision shall not in any way

affect the conditions in the contract regarding the payment to be made by corporation at the sanctioned tender rates.

(vi) Contractor shall provide drinking water facilities to the workers. Similar amenities shall be provided to the workers engaged on large work in urban areas.

(vii) Contractor to make precaution against accidents which take place on account of labours using loose garments while working on machinery.

**Clause 44** : Payment to contractors shall be made by cheque drawn on any treasury within the division convenient to them provided the amount exceed Rs. 10 Amounts not exceeding Rs. 10 will be paid in cash.

**Clause 45** : Any contractor who does not accept these conditions shall not be allowed to tender or works.

**Clause 46** : If Corporation declares state of scarcity or famine to exist in any village situated within 10 miles of the work, the contractor shall employ upon such parts of the work, as are suitable for unskilled labour, any person certified to him by the Dy. Engineer, or by any person to whom the Dy. Engineer may have delegated this duty in writing to be in need of relief and shall be bound to pay to such person wages not below the minimum which MFSDCL may have fixed in this behalf. Any disputes which may arise in connection with the implementation of this clause shall be decided by the Dy. Engineer whose decision shall be final and binding on the contractor.

**Clause 47** : The price quoted by the contractors shall not in any case exceed the control price, if any, fixed by Govt. or reasonable price which it is permissible for him to change a private purchase for the same class and description, the controlled price or the price permissible under Hoarding and profiteering Ordinance, 1948 as amended from time to time, if the price quoted exceeds the controlled price or the price permissible under Hoarding and profiteering prevention Ordinance the contractor will specifically mention this fact in this tender along with reason for quoting such higher prices. The purchaser at his discretion will in such case exercise the right of revising the price at any stage so as to conform with controlled price on the permissible under the Hoarding and profiteering prevention Ordinance. The discretion will be exercised without prejudice to any other action that may be taken against the contractor.

**Clause 47A** : The tendered rates shall be inclusive of all taxes, rates and caused and shall also be inclusive of the tax leviable in respect of works contract under provision of the Maharashtra Sales Tax on transfer of property in goods involved in the execution of works contract Act 1985 (Maharashtra Act No. XIX of 1985).

**Clause 48** : The rates to be quoted by the contractor must be inclusive of Sales Tax No extra payment on this account will be made to the contractor.

**Clause 49** : In case of materials that may remain surplus with the contractor from those issued for the work contracted for the date of ascertainment of the materials being surplus will be taken as the date of state for the purpose of sales tax and the sales tax will be recovered on such date.

**Clause 50** : The contractor shall employ the unskilled labour to be employed by him on the said work only from locally available labours and shall give preference to those persons enrolled under Maharashtra MFSDCL Employment and self-employment Department's Scheme.

Provided however, that if the required unskilled labors are not available, locally the contractor shall in the first in stage employ such number of persons as is available and thereafter may with previous permission, in writing of the Dy. Engineer-in-charge of the said work, obtain the rest of the requirement of unskilled labour from outside the above scheme.

**Clause 51** : Wages to be paid to the skilled and unskilled labourers engaged by the contractor.

The contractor shall pay the labourers skilled and unskilled according to the wages prescribed by the minimum Wages Act of 1948 applicable to the area in which the work the contractor is located.

(1) The contractor shall comply with the provisions of the apprentices Act 1961 and the rules and order issued under from time to time, if he fails to do so his failure will be a breach of the contract. The contract and the Superintending Engineer may in his discretion cancel of the contract. The Contractor shall also be liable for precautionary liability, arising out on account any violation by him of the provision of Act. The contractor shall pay labourers, skilled and unskilled according to prescribed wages by Minimum Wages Act applicable to the area in which work of the contractor is in progress.

(2) The contractor to take precautions against accidents which take place on account of labour using loose garments while working near machinery

**Clause 52** : All account whatsoever which the contractor is liable to pay to the Corporation in connection with the execution of the work including the amount payable in respect of (i) materials and or stores supplied/issued hereunder by the Corporation to the contractor (ii) hire charges in respect of heavy plant. Machinery and equipment given on hire by the Corporation to the contractor for execution him of the work and/or on which advances have been given by the Corporation to the contractor shall be deemed to be arrears of the L and revenue and the Corporation may without

prejudice to any other rights and remedies of the Corporation recover the same from the contractor as arrears of Revenue.

**Clause 53** : The contractor shall duly comply with all the provisions of the Contract Labour (Regulation and Abolition) Act, 1979 (37 of 1970) and the Maharashtra Contract Labour (Regulation and Abolition) Rules, 1971 as amended from time to time and all other relevant statutes and statutory provisions concerning payment of wages particularly to workmen employed by the contractor and working on the site of the work. In particular the contractor shall pay wages to each employed by him on the site of the work at the rates prescribed under the Maharashtra Contract Labour (Regulation and Abolition) Rules 1971. If the contractor fails or neglects to pay wages at the said rate or makes short payment and the Corporation makes such payment of wages in full or part thereof less paid by the contractor as the case may be the amount so paid by the Corporation to such workers shall be deemed to be arrears of Land Revenue and the Corporation shall be entitled to recover the same such as from the Contractor or deduct same from the amount payable by the Corporation to the contractor hereunder or from any other amount payable by the Corporation to the contractor hereunder or from any other amount/s payable to him by the Corporation.

**Clause 54** : The contractor shall engage apprentices such as brick-layer, carpenter, wiremen, plumber, as well as black-smith by recommended by the State Apprenticeship advisor Director of Technical Education, Dhobi-Talao, Bombay-1. In the construction work (As per MFSDCL of Maharashtra Education Department NO. TSA/5170/T/56689, dated 7/7/72).

**Clause 55:-**

- a) The anti-malaria and other health measures shall be taken as directed by the Joint Director (Malaria and Filariasis) of Health Services, Pune.
- b) Contractor shall see that mosquito breeding conditions are not created so as to keep vector population to minimum level.
- c) Contractor shall carry out anti-malaria measures in the area as per guidelines prescribed under National Malaria Eradication Programme and as directed by the Joint Director (Malaria and Filariasis) of Health Services, Pune.
- d) In case of default carrying out prescribed anti-malaria measures resulting in increase in malaria incidence, contractor shall be liable to pay to Corporation the amount spent by Corporation on anti-malaria measures to control the situation in addition to fine.
- e) Relation with Public Authorities :-

The contractor shall make sufficient arrangements for draining away the sullage water as well as water coming from bathing and, washing places and shall dispose off this water in such

away so as no to cause any nuisance. He shall also keep the premises clean by employing sufficient number of sweepers. The contractor shall comply with all rules, regulations bye-laws and directions given from time to time by any local or public Authority in connection with this work and shall pay fees charges which are leviable on him without any extra cost to Corporation.

NAME OF WORK

SCHEDULE "A"

Schedule showing (approximately) the materials to be supplied from the Public Works Stores for the work contracted to be executed and Preliminary and Ancillary works and the rates at which they are to be charged for....

Sr.No.	Particulars	Quantity	Unit	Rates which the Material will be charged in figures      in Words	Place Delivery	of
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Conditions of Schedule 'A' attached separately

Note : The person or firm submitting the tender should see that the rates in the above schedule are filled up by the Dy. Engineer in-charge on the issue of form prior to the submission of the tender

## **Conditions of materials issued under Schedule 'A'**

The issue of materials by the Department under Schedule 'A' of this contract will be subject to interalia the following conditions :-

- 1) All the materials shall be made available for delivery on working days and during works hours only, to be arranged mutually by the contractor between himself and the Store-keeper or the Sub-Division Officer who so ever shall issue the same. The material shall be made available at the place of delivery mentioned in schedule 'A' of the tender.
- 2) The contractor shall submit periodically as well as on completion of work, an account of all materials issued to him in a manner as directed by Engineer in-charge. The contractor shall also furnish an account of previous materials issued before placing demand for the further materials. In addition a separate register shall be maintained on site for recording daily item wise cement consumption of cement issued to the and also item wise consumption of other materials issued under Schedule 'A' as directed. This shall be signed daily by contractor or his representative and representative of Engineer-in-charge.
- 3) The quantities in Schedule 'A' are approximate and may vary according to actual and bona fide use as certified by the Engineer-in charge.
- 4) All materials mentioned in Schedule 'A' required for the work shall be taken from the Department only. The materials from other source, in lieu of the materials in Schedule 'A' shall not be tested from any Corporation Laboratory by the Contractor and samples of such Materials shall be tested from any Corporation Laboratory by the Contractor at his own cost and the test results to be supplied to the Department. The materials not conforming to the required standard shall be removed at once from the site of the work by the contractor at his own cost.
- 5) The rate mentioned in Schedule 'A' are inclusive of Sales tax and storage charges.
- 6) After issue of any material for use on bona fide Govt. work to contractor if the Engineer –in-charge ascertains on any particular date that the portion of such supplies comes to surplus to the requirement of the work, the date of ascertainment will be taken as the date for sale for the purpose of payment of Sales Tax on such portion and recovered from the contractor as per rules.
- 7) The Contractor shall construct shed/sheds as per direction of the Engineer-in-charge of the work for storing the materials issued to him by this department and provide double locking materials shall be taken for use in presence of the Departmental persons only.

8) The contractor shall make his own arrangement of the safe custody for the materials which are supplied to him by the Department.

9) The contractor shall not use cement and other materials under Schedule 'A' n items other than as per this tender except for such ancillary small items as are connected with absolutely necessary for execution of this work as may be decided by the Engineer.

10) All steel issued under Schedule 'A' which remains surplus with the contractor after use in the work, shall be returned to the Department Generally, only full lengths bards in lengths supplied by the Department shall be taken back by the department. However, the Engineer-in-charge may at his discretion, take back bards of particular diameter in any other lengths approved by him, if same are required for use in Corporation work. The rates for are payment of the surplus acceptable materials required by the contractor at the godown of issue, shall be at the prevailing market rates or the rates charged top the contractor, excluding the element of storage charges or the issued rates excluding the element of storage charges at the time of ret urn, whichever is lower. The quantity of such surplus steel as is not acceptable to the department may be disposed off by the contractor in any manner he likes and the cost there of shall entirely be borne by the contractor. However, in cases in which the materials issued to a contractor become surplus owing to change in the designing of the work after the materials were issued to the contractor, the materials should be taken back from the contractor at the same rates at which they were supplied to him by Corporation provided, the materials, at the time taking over, were not actually needed and are service.

11) Wild Steel / Tor Steel bards shall be issued to the contractor on actual weighment. however, for the purpose of payment, the weight of steel bars used on the work shall be calculated on the basis standard weight per unit length vide table in B 10, 13 of Standard Specification Book 972 edition by B & C Dept. Hence, claims on account of difference in actual weight and calculated on the basis of standard weight per unit length shall not be entertained. No extra calculated on the basis of standard weight per unit length shall not entertained. NO extra payment for straightening the bars will be made.

12) The contractor shall make his own arrangement for securing structural steel such as square bars, flats, rolled steel joists, angles, iron plates, etc. the department is neither responsible for securing permit nor to supply requires structural steel. however, necessary certificate to the effect that the material is required for the said bona fide Govt. work, will be issued if required.

- 13) The charges for conveyance of materials from the place of delivery to the site of work and the actual spot on work site shall be entirely born by the contractor. No claims on this account shall be entertained.
- 14) All surplus materials after completion of the work are not returned by the contractor, recovery of such materials shall be made at the penal rate of twice the issue rate of these materials from the contractor,. Sales Tax and General tax on the cost of surplus materials which are not returned, shall also be recovered form the contractor as decided by the Dy. Engineer. However, it is clear that if any surplus materials returned is in unserviceable or in damaged conditions, the same will not be accepted In such case the cost will be recovered from the contractor as stated above in this clause.
- 15) Empty asphalt drums will have to be returned to the depot. In case of non-return to empty asphalt drums, recovery at Rs.\_\_\_\_ per drum will be charged to the contractor.
- 16) The person/firm submitting the tenders should see that the rates in the above schedule 'A' are - up by the Dy. Engineer-in-charge of the work on the issue of the form prior to the submission of the tender.
- 17) The Govt. shall not be responsible for the loss in cement during transit. Cement delivered to the contractor at the Govt. stores shall mean 50 Kgs./ per bag by weight. The rate quoted should correspond to this method of reckoning. In case weight batching is adopted, the direction will have to be done on weight basis. While doing if cement is found to be short by a bag, it will have to be made good by the contractor for which additional cement would be supplied by the Department at issue rate in Schedule 'A'.
- 18) For the purpose of the issue rate, the area of A.C. sheets and ridges shall be the actual gross size before laying in the roof and each dimensions shall be measured at straight line in plain neglecting extra length due to corrugations etc.)
- 19) The contractor shall furnish unstamped receipts for all materials issued under schedule 'A'.
- 20) The contractor shall furnish the account of steel, cement etc. issued to him at each time before placing an indent for further supply. The quantity demanded in the indent should be commensurate with the immediate requirement of the work. Also be should submit on commensurate with the immediate requirement of the work. Also be should submit on completion of the work final account of all the materials sup plied to him by the department. This account will be scrutinized by the engineer-

in-charge and if any extra use is found shortages are seen, and any quality of material remains unaccounted, recovery at penal rates will be effected for such quantities as motioned in clause 14 above.

21) A separate register shall be maintained on site for recording detailed item wise cement and steel consumption on the work. The register shall be signed by the contractor or his authorized representatives and got signed from the representative of the Engineer-in-charge.

## **GENERAL CONDITION FOR ELECTRICAL WORKS.**

1. All the items occurring in the works and as found necessary in actual execution shall be carried out in workman like manner as per specification given in P.W.D. Hand book (Volume-16) I.F wiring Regulations for buildings. I.B.Act., (late addition ) IS code of practice for each item of work and as per the instruction of Dy. Engineer (Elect), In-charge from time to time . Specification herewith attached shall however have the precedence and the contractor/s should please read them carefully.

2. Item must be distinctly understood that the conditions of the contract and specification are intended to be rigidly enforced and no relaxation on the ground of customs prevailing is to be allowed. No extra work will be carried out by the contractor's unless ordered in writing by the Dy. Engineer (Elect) within seven days of receipt of such orders. Extra charges for claim in respect of extra work will not be entertained unless the work to which it relates as clearly without the spirit and meaning of the specifications.

In case of the failure of the contractors to get the rate fixed as above within the specified period as above, the rate that may be fixed by the Dy. Engineer (Elect) shall be binding on the contractor.

3. The contractor shall engage and experience licensed and authorized first class supervisor (Elect.) for the work who should be capable of managing and guiding the work. He will take such orders as may be given to him from time to time and will be responsible for carrying out the same promptly.

4. In case the contractors continue to indulge in doing work contrary to the instructions give to them in the order beck or given in writing by separate communication they will be doing so entirely at their risk and cost and the Engineer –in-charge or his authorized representative shall have the right to stop such work and get the needful done at the contractor's risk and cost. The contractor shall be held responsible for the delay of execution of work and other consequences arising out of noncompliance of the orders given.

5. The contractor/s will have to make is / their own arrangements at his/their own cost for office and stores an safe-guarding the materials dropped to the work and the materials issued by the MFSCDC Ltd. If any.

6. The contractors shall provide all labour, tools, peg, strings and all other materials as required for linking and setting out the cable routs etc. and all tools, laour etc. required to complete the job in all respect for the work without any payment.

7. The contractor shall make their own arrangement at their own expenses all necessary provisions for housing water supply ad sanitary arrangement for his/their employees and pay directly to

the authorities concerned all rents/sales tax and other charges. However, water charges at 0.1% of the estimated cost of the work will be recovered from the R.S. bills of the contractor.

8. The rates tendered by the contractor/s shall be inclusive of all taxes, duties, excise, octroi and all other taxes on the materials required for the work and labour and no extra payment shall be made to the contractor on any account thereof. NO escalation on any account is permissible.

9. The time provided in the contract takes into account all exigencies including monsoon conditions.

10. Every tenderer to give shall be made to give clear possession of the work in the building in one lot. If it is not possible to do so the possession shall be in separate lots for which delay no claim shall be entertained. However, on such account necessary extension of the contract period may be considered on application from the contractor at the right time. The contractor shall show satisfactory progress on the work where clear possession of the site is given and in case of delay action as per terms of contract shall be taken.

11. The contractor shall have to pay all deposit and payment to all concerned authorities for execution of all items of the work under this contract and the same are inclusive of his/their rates.

12. After completion of the job contractor/s shall remove forthwith all the serviceable and unserviceable materials from the site of work and other debris shall be dumped and leveled as ordered within the authorized area, if required or otherwise shall remove the same from site of work, if so ordered without any extra cost.

13. In case of failure on the part of the contractor/s to comply with any of the instructions given in the notice of tender under the tender conditions, the Dy. Engineer (Elect.) to get the work done at the risk and cost of the contractor/s and deduct necessary amount from his/their bills or other dues in the M.F.S.& C.D.C. LTD.

14. The rates quoted in the tender apply to all the details described for the items in the Schedule B and in specifications notes or any other part of the tender. The items shall be treated complete item payable at the tendered rates and nothing extra being payable separately on any account.

15. The sanction schedule of rates for the current year shall be taken into account for any extra item and the same shall be binding on the contractor/s.

16. The contractor/s shall be fully responsible for safe guarding, fittings, fixtures etc. till the work completed in all respected and handed over to Dy. Engineer(Elect.) of the work in writing.

17. **GUARANTEE:** It is binding on the contractor/s to give the guarantee for repairs and replacement of any part which goes out of order due to manufacturing defects within a period of one year from the date of completion of the work.

18. All the times under the contract must be done as per the direction of Dy. Engineer (Elect.) or his authorized assistants and be easily accessible and capable of being thoroughly inspected.

19. All the materials, accessories and fittings etc. provided by the contractor/s shall be of best quality and shall confirm with the standard specification. The materials etc. shall be as per detailed list and the samples shall be submitted accordingly and get approved. If contractor failed to use the approved make of materials, accessories etc. the same will be rejected and replaced at the risk and cost of the contractor/s.

20. The work shall not be sublet or carried out by a subcontractor Only full competent wireman /skilled workers shall be employed and the work shall be carried out under the direct supervision of the licensed supervisor. The name and the license of the first class Supervisor shall be intimated before commencement of the work to the Dy. Engineer (Elect.) in writing.

21. The work shall be executed in a workman like manner and shall present neat and satisfactory appearance when fully completed.

22. The specification for this work are based on the plans of the building showing the approximate location of all outlets, switches, accessories etc. in the drawings. In case the specification are completely contrary on each other, and if decided by the Dy. Engineer (Elect.) to shift the position of any light points/fain points etc. or to modify the line out the contractor shall have to carry out any alterations without any extra cost as per the instruction of the Engineer-In-chagre.

23. During the execution of any items of work any damage is done to the structural members, finishing of the main work, the same shall be rectified and reinstated to the original store to the entire satisfaction of the Dy. Engineer (Elect) failing which the needful shall be done at the entire risk and cost of the contractor/s and the expenditure incurred shall be recovered from his dues.

24. Before purchasing any accessories, fittings etc. required for the work the contractor shall get the brand and samples approved from the Dy. Engineer (Elect) and in case they failed to do so, the work with such a materials will be liable to be rejected for which the responsibility shall be solely of the contractor/s.

25. All items of the work shall be completely and thoroughly finished in fine workman like manner as per the direction of the Dy. Engineer (Elect) or his authorized representative before the work is handed over to the MFSCDCL. Satisfactory test for the work and materials shall be given by the contractor/s at his own cos.

26. The contractor shall have to obtain necessary NOC from P.W.D. Electrical Inspector if total height of the building is more than 15 meters for which no extra payment shall be made.

27. Every care should be taken to see that the progress on the work as per specification and the work completed within stipulated time and work handed over to MFSCDC Ltd. In writing with inventory and signed by the Supervisory Staff of this office without which the work shall not be treated as completed.

28. The contractor/s should submit the sample consisting of all materials as per the specifications to the Dy. Engineer (Elect) within three days of receipt of the work order and get the same approved before installation of the same on the site of the work.

29. The supervisory staff of the Dy. Engineer (Elect) shall be entitle to remove bad quality and non-specter, non-approved materials for rejection without any extra charges for the same. Any materials beyond approval and deviation from the specified shall have to be replaced free of cost by the contractors.

30. All permissions / approvals from Electrical Inspector, Thane-1 and MSEDCL has to be obtained by the contractor.

## **DETAILS SPECIFICATION OF ELECTRICAL WORK**

### **5.1 GENERAL SPECIFICATIONS:**

The following item wise specification will apply under circumstances to the work to be carried out against this contract and it is to be ensured the contractor shall obtain for himself at his own expenses and on his own responsibility all the information which may be necessary off purpose of competing the tender and for entering into a contract keeping in view the specifications and inspection of same etc.

The tender rates shall include for the cost of materials, erections, construction, commissioning, labour, supervision, tools, planks, transport, all taxes contingencies, breakage, wastage, sundries, scaffolding, maintenance of installation for one year etc., they should be for an item compete in all respect.

The electrical installation shall comply with the requirement of Indian Electricity Act and Rules made there under and also with any other regulation such as these made under fire insurance act they may be applicable.

### **5.2 MATERIALS :**

- a. All materials used on the works shall to the relevant B.I.S. specifications.
- b. The material covered under quality control order shall bear the manufacturing certificate issued by the competent authority under the order.
- c. While carrying out Electrical works latest provisions of I.E. rule must be followed.
- d. All materials and fixtures to be used by the contractor are to be got approved from the Engineer in charge before they are used in the work.
- e. The contractor shall use materials accessories or fitting any one of the makes mentioned in the tender and as approved by the Engineer in charge of the work.
- f. Before the commencement of the work the contractor shall submit detailed drawing in triplicate showing the size of the cubical panel with bus bar arrangements, switchgears, M.C.C.B.'S., Voltmeter, Ammeter, Rotary switch, C.T. along with the connection for the approval of the Deputy Engineer (Electrical.).

### **5.3 SUPERVISION & QUALITY CONTROL :**

The M.F.S. & C.D.C. Ltd. has appointed Engineer in charge to supervise, for quality control & checking the measurement and day to day progress of the electrical works. The contractors shall receive

necessary instructions from the Dy. Engineer (Elect.) regarding the work in writing as and when necessary.

Before, the commencement of work, the contractor, shall obtain necessary approval of Electrical materials and accessories required for the work and obtain necessary lay out approved through the Dy. Engineer (Elect.)

The Dy. Engineer (Elect.) shall be overall in charge of the work to maintain good quality and completion of the work in all respects as stipulated in the contract.

CONTRACTOR

DY ENGINEER (ELECT)  
M.F.S. & C.D.C.LTD.  
FILM CITY, MUMBAI – 400 065

## **ADDITIONAL CONDITION**

### **SPECIFICATION FOR – ELECTRICAL INSTLLATION WORK CODES AND STANDARDS.**

1. The Following code and standards shall be applicable for the continuous performance or all electrical equipment to be supplied, delivered at site, erected, tested and commissioned.
2. The electrical equipment offered shall comply to the relevant Aers or Regulation.
  - a. Indian standard speciation.
  - b. Fire Insurance Regulation.
  - c. Tariff Advisory committee Regulation.
  - d. And in particular to Indian Electricity Rules in all respect with other IS code as applicable at the time of execution over and above the following codes and with all its latest amendments up-to-date.

### **3. Some of the Indian standards are indicated below for general reference:-**

IS – 5316	Guide for safety procedure and practices in Electricity works.
IS- 5908	Method of measurement of electrical Installation in building.
IS- 732	Electrical Wiring Installation (upto 650 V).
IS- 694	PVC Insulated cable and codes for Power/Lighting.
IS- 1554	Part-I PVC Insulated cable for working voltage upto 1.1 KV

### **CONTRACTOR NO.OF CORRECTIONS DY.ENGINEER (ELECT)**

IS – 162	Electrical Power Switch ear for indoor & outdoor Installations.
IS- 342	Metal enclosed switchgear and control gear.
IS- 3043	Code of Practise for earthing

IS- 1567	Metal Clad switches upto 100 Amps.
IS- 1293	3 Pin plugs and socket.
IS – 1087	Single pole templar switch 5 Amps.
IS – 375	Marking & arrangement for switchgear boards Main connection and auxiliary wiring.
IS – 374	Ceiling fans.
IS – 374	Ceiling fans.
IS – 2675	Enclosed distribution fuse boards and cutouts for voltage upto 1100 V.
IS – 2509	PVC electrical conduits.
IS – 2309	Code of practice for lightening protection.
IS – 2312	Exhaust Fans.
IS – 3854	Switchers for domestic and similar purpose.
IS – 2208	HRC Cartridge fuse units upto 650 V.
IS – 2147	Degree of protection provide for enclosure of switchgear.
IS – 1947	Flood lights.
IS – 6381	Specifications for construction and testing of electrical apparatus.
IS – 5578	Guide for making of insulated conductors.
IS – 4613	Switch sockets outlets.

Nothing in this specification shall be construed to relieve the Contractor of his responsibility to make the installations comply with the requirements of the above.

#### **ADDITIONAL SPECIFICATIONS FOR ET WORKS:**

##### **General :**

The Electrical Installation work in general shall be carried out in accordance with I.E. Act, IEE wiring regulations for buildings. I.S. code of practice for various types electric works and P.W.D.

Handbook (Vol.16). But wherever these specification differ from the above rules, the specifications given below shall be strictly followed.

**Point Wiring on T.W. Battens:**

The battens shall be of well seasoned teak-wood without knots and shall be impregnated with two coats of shellac varnish before actual use. The thickness of the battons shall be as per **I.S.** specifications. The T.W. Battons shall be fixed on the walls or ceiling of the buildings by means of PVC Pousgs, and iron screws. The distance in between the crews supporting the battons shall not be more than 60 Cmm (2Ft.). The screws shall be fixed counter – sunk so that the wires fixed on the battens are not scratched or damaged. Bends and curves made of well seasoned teak-wood and duly varnished shall be used at the places where the run of wires is changing the directions. The battens shall be in full length and pieces will not be allowed on the run.

The wires shall be attached to the battens by using tinned brass joint clips of 32 SWG (274 mm thick) and 8 mm wide of suitable size. (or as specified in items) as required and fixed with pure brass nails of 3/8” x 17 SWG and with a spacing not more than 80 mm centre to centre.

## **T.W. Boards, blacks etc.**

All the boards used shall be made of 1<sup>st</sup> class teak wood well seasoned and will be polished. These shall be double fooling type with 2 to 3 Nos. of heavy duty rust proof hitches and 2 Nos. of heavy brass hooks and eyebolts of required size. The top planks shall be either T.W. or 6mm thick marine ply. The boards shall be fixed to walls by fixing 4 Nos. of T.W. cutties in the walls and with iron screws. In case, sun mica surfaced boards are specified, the same shall be provided on the above mentioned T.W. Boards with approved quality sun mica laminated sheet and proper adhesive firmly. The T.W. round or square blocks shall be double type and of best quality and of suitable size to suit accessories etc be fixed on. The blocks shall be well polished and the size and quality of T.W. Boards/blocks shall be got approved from the Engineer- In-Charge before actual use on the work.

When PVC casing/ capping system is done, the round blocks shall be of PVC and of heavy duty and approved quality as directed. The same shall be of appropriate size to suit the accessories to be fixed on and fixed on ceiling by using PVC plugs and iron screws of required size.

Teak-wood cutters for supporting pipes, cables etc. shall be used and shall be of 19mm square tapered of required length and of best seasoned teak-wood and well polished. These shall be rigidly secured to walls by using cement mortar and finished properly. Nowhere the screws shall be hammered while fixing if hammered, such work will be rejected.

Point wiring in PVC Casing and Capping (Trunking ) system:

In the alternative if specified or if directed by the Engineer In Charges, the wiring shall be done in PVC casing and capping system. The PVC casing and capping shall be of heavy duty of approved make and of appropriate size and thickness to accommodate required number of wires. The same shall be of white colour with embossing of manufacturer's name and other details. The casing shall be fixed on walls or ceilings by using PVC plugs and iron screws of required size. The distance between the screws supporting the casing shall not be more than 600mm (2.00feet). Necessary PVC fittings and accessories required for this type of wiring (bends, tees couplings elbows couplers etc.) shall be used as required and as directed by the Engineer In charges.

## **INSULATED WIRES :**

All the wires shall be poly-vinyl chloride insulated having copper/aluminium conductors of standard type and of required cross section area at the minimum 1.5 Sq.m. and of 650 Volts grade ISI grade ISI marked The make type and quality of these wires shall be got approved from the Engineer In

charge. The same shall be fixed on buttons or run in PVC Casting/capping as required and/specified in the items of schedule "B" Point wiring in any of the above systems shall be done in looping in system with each point having a separate control. The wiring passing through a porcelain or PVC pipe of required size duly finished and matched with the original wall etc as directed.

### **ACCESSORIES :**

Single pole switches be bakelite porcelain based type, piano type, piano type flush mounting for 5/15 amp. A.C. 250Volts grade as specified in the item of schedule. All the contacts ad springs, screws and other parts in the switches shall be robust and shall be of brass or bronze as per I.S. specification. The switches shall be fixed on the T.W. boards or blocks as the case may be by means of brass screws of suitable size. All switches controlling light points must be placed on phase wire only. The switches and other accessories shall be mounted at the height of 1525 mm from floor level unless and otherwise specified. Single switches shall be fixed on double square blocks 4"x4"x1.5".

Three pin plug sockets shall be either porcelain based bakelite or piano type, flush mounting type for 5/15 amp. A.C. 250Volt grade as specified in item of Schedule. All the plugs sockets must have two pin and one earth terminal of brass/bronze. The earth terminal to be connected to the main earth wire by means of 12 swg. Alluminium wire duly sleved in the switch boards with PVC sleeve of required size and length. The socket shall be fixed on TW boards by means of pure brass screws of required size.

All the batten bolders abgle holders and pendent holders shall be bakelite based either white or of urea of skirt type only with inner pure brass ring for 5 amps. A.C. 250 volts grade. All the contacts and springs shall be of heavy duty brass or bronze. The springs in all type of holders shall be strong enough and shall be capable for making good and firm contacts with the bulbs. Pure brass screws of suitable size.

The ceiling rose shall be bakelite white/urea with all heavy duty brass/bronze connectors, screws etc. suitable for 5 amps. AC 250 Volts grade supply and shall be fixed similarly as that of holders as mentioned above.

Anchor type D.P. Switches must be heavy duty type and equipped with an indicator lamp of best durable quality and shall be porcelain based ivory/white urea cover, 30 Amps. 250 Volts capacity and have all copper/bronze contact, screws and all parts preferably with silverside contacts. The springs shall be of bronze and of robust type and suitable for quick make and break action. It may be noted that if the DP Switch is provided in the meter cupboard or cabine on existing or providing TW Planks for reduction in the rate of Rs. 4.50 per number will be given for not providing the TW Board or Planks as

per tender item provision. The DP Switches shall be fixed with brass screws of required size and length as directed. The DP Switches in meter cupboard shall be marked with oil paint the block numbers and polarity as directed. The Contractors shall at their cost give full load testing for the specified current as and instructed by D. Engineer (Electrical).

PVC armoured cable :-

The cables shall be poly vinyl chloride of ISI Mark, heavy duty type with copper/aluminium conductors of specified size as mentioned in the item of schedule and of 1100 Volt grade. Each coil or drum of cable must be accompanied by the makers certificate to that effect setting there the class and all other details as per IS specification and also certificate of having paid excise duty to the concerned authorities of Corporation. The cables shall have marker's name or other means of identification or emboss at heavy meter length of the cable as specified of ISI authorities.

The cable shall be erected on the walls or ceilings and supported on MS spacers of size 3<sup>3</sup>/<sub>4</sub>" (19mm wide) 3/16" (5mm) thick of required length and with MS Clamps 3/4" (19mm) wide and 1/8" (3mm) thick of required length for bunch of cables (from 2 to 8 cables) or GI (14SWG) clamps or heavy duty GI saddles for single cables as directed. The spacing of MS Spacers shall be 30 cms. Centre to centre and at the both ends of the curve where cables are bent for changing direction. The MC spacers shall be firmly fixed by means of nettie-fold iron screws of adequate size and PVC plugs. The MS clamps shall be fixed to the spacers by means of round headed GI screws of required size as directed. The cable shall be lead in full length from the source of supply main switches in the meter cabin upto the main switches as directed i.e. one length on joining of cables is permitted unless and otherwise instructed to do so in special cases. The cables passing through the slabs for flooring shall be protected in provided GI pipe for single cable and MS/GI boxes for more cable fabricated out of 14 SWG MS/GI sheets. In either cases the same shall be embedded in the floor in flush with the bottom surface of the slab and brought upto one ft. above the finish floor levels and finished with cement/mortar and smooth plaster upto 3" (75mm) from floor level on all three sides of the box for which nothing extra shall be paid. If the boxes are MS the same shall be of CRCA grade only and painted with one coat of red oxide and 2 coats of enameled paint of approved tinge and quality, before actual erection on site.

The armoring of the cable shall be connected to the earth electrode or main earth by means of G.I. 14 SWG wire, and suitable size heavy duty copper or aluminum earthing clips at all the terminating points as directed and for earthing clips nothing extra shall be paid. A continuous earth wire, GI of 10 SWG shall be run along with cable by using GI bending wire, at regular intervals of 2 ft. as directed. The main earth shall be connected by means of GI wire 14 SWG and terminated in the main switch board.

All the GI wires shall be not dipped galvanized plated, iron wires will not be allowed and the name well be liable for rejection if used by the contractor deliberately or through oversight. These specifications include all connection in all accessories etc. Wherever necessary and as directed by the Dy. Engineer (E).

If specified in the item of the item of schedule, and if the conductors are of aluminum the following precautions and remedies shall be followed scrupulously for the better workmanship and durability.

- i) Circular cuts should not be made on the insulation
- ii) The bare conductors shall be handled with care to prevent scratches which may break conductors.
- iii) Clean the conductors and apply liberally a suitable contact grease before inserting it, the terminals.
- (iv) Use a proper size screw driver for the tightening the knob and other screws. Connections with aluminum conductors shall not be made without applying grease single white layer of oxide forms on aluminum conductors will impale conductivity.

### **DPIC, TPIC SWITCHES AND DB'S**

The switches shall be of rewirable fuses type of capacity as mentioned in the items of schedule and shall be fixed on angle and frame or TW board as directed. The switches shall be of heavy duty construction totally enclosed dust proof, quick make and break action and capable of carrying continuously the current specified with necessary connections earthing as directed.

Distribution boards shall be of heavy duty MS dust proof of capacity as mentioned in the schedule of items with fused and neutral bar of required capacity and fixed on angle and frame or TW Board as directed with necessary connection, earthing, testing as directed. The make, type and quality shall be got approved from the Dy. Engineer (Electrical)

### **EARTHING :**

GI earth plate of size 60 x 60 x 0.6. Shall be buried in 1.5 meters below ground level near meter cabin as directed duly filled with 30 K.G. charcoal and GI Earth wire \*SWG double shall be connected with nut – bolts. The earth wire shall be covered in a GI pipe of 12 mm diameter upto 2 meter length and terminal shall be provided in the meter cabin to connect the earth lead wire with lugging,

connections as directed. The work shall be carried out as per IS 3043/1966 and per drawings given therein

**CAUTION BOARD :**

The caution board shall be of heavy duty citreous enameled GI sheet of 18 SWG of size 150 x 150 cms. As per IS 2551/1961 and shall be erected in position as directed by the Dy. Engineer (Electrical).

**FLOURSESCENT FITTINGS** : Shall be of white stove enameled box type with 0.8 mm thick MS sheet and shall be one light type with 40 watts tube, starter, polyester, heavy duty copper choke with silicon stamping condenser of adequate capacity. This shall be properly wired upto and erected with lock type holders. Fittings and chokes shall be same make and quality and fixed on two numbers of TW blocks as directed.

**M.V. LAMP FITTINGS, BRACKET AND M.V. LAMPS :** The M.V. Lamp fittings should be watertight of approved make and similarly CAT. No. Gas – 125 P Glolite. The same shall be complete with inner reflector and clear acrylic cover and closed type wired within 3 pin porcelain holder, copper polyester choke condenser fuse and shall be of same make and quality and fixed on provided bracket as directed.

M.V. Lampas shall be of three pin screw type 250 V. 125/250/400 Watts and shall be of approved quality, make as per tender specifications and list of material and shall be fixed in a position and tested as directed by Dy. Engineer (Elect). Wall bracket shall be painted with one coat of red oxide and two coats of enamel paint of approved quality and tinge. This shall be fixed in a position rigidly by means of 50mm x 50mm x 3 mm thick MS flat (2 Nos.) welded to the pipe as directed and 10 mm dia x 100mm long, grouted nut bolt. The design shall be got approved from Dy. Engineer (Elect) before executing the work.

**EARTH WIRE :** The earth wire shall be of 10 SWG hot-dipped galvanized and shall be run along with the VC armoured cable as earth wire and shall be connected to the main earth terminal in meter cupboard as directed. Individual rooms shall be provided earthing by bonding/connecting & running 14 SWG G.I. earth wire from made in earth wire upto the main switch board in each room.

**CIRCUIT MAINS AND BOARD WIRING:** PVC corrugated flexible pipes of required size and quality with ISI mark shall be used whenever necessary in the meter cupboard with copper wiring as specified in

the item of schedule complete with couplings, bakelite or rubber, bushes, sleeves etc. as required and directed shall be used.

MCB'S ISOLATORS, ENCLOSURES ETC : The miniature circuit breakers shall be of adequate capacity as mentioned in the schedule of items and as directed by the Dy. Engineer (Elect) and approved make and fixed in the provided metal clad enclosure or distribution board as directed complete with necessary connections and fixed in position as directed on angle and frame or TW Board as directed. The capacity and type of DBS, Isolators etc. shall be as per item of schedule.

On completion of installation fully, the contractor shall carry out the testing of the same with a megger as per IS code of practice, complete wiring, layout diagrams, megger testing results and earth testing results shall be submitted by contractor to the Dy.Engineer (Elect.) for the satisfactory completion of the work without which the work will not be treated as completed in all respects.

#### **6.4 MOULDED CASE CIRCUIT BREAKER :**

The MCCB shall be OTH series (DTH – 400) with thermal release range 500 Volts, with breaking capacity upto 50KA, including fixing and connection & testing complete.

#### **6.5 TRIPLE POLE METAL CLAD HRC FUSE SWITCH :**

The switch unit shall be of approved make and quality 500 volts erected with connection & testing as directed.

#### **6.6. P.V.C. ARMORED CABLE 1.1 K.V. GRADE**

The PVS aluminum armored cable shall be of 1.1 KV Grade with aluminum conductor PVC insulated, inner sheathed with G.I. flat steel strip armoring and PVC sheathed cable of approved quality and make confirming to IS 1554 (part-I) 1988 code AY (in case of single core ) and code AYWY/AYFY/AYY( in case of 4 core cable) ISI mark. The cable shall be in single piece and no jointing is permitted. The cable shall be laid in provided trench after removing stone or any sharp materials or fixed to the wall or pole or structure with the 6mm thick 32mm width MS spacers with continuous earth wire of ordered including lugging connection and testing.

#### **6.7. XLPE CABLE:**

The cable shall be stranded aluminum with G.I. steel strip armoring PVC sheathed 11000 V., Grade ISI, marked and confirming to IS with normal temperature 90 C and overload temperature upto 130 C with fair resistance capacity and shall have bending ready of 10 x D ( 10 timed overall dia.)

#### **6.8 M.S. SHEET :**

The M.S. sheet shall be of good quality and of 16 SWG to be used and for fabrication of cubical panels and other boxes. After fabrication the MS sheet shall be cleaned on both sides with acid before applying anticorrosive paint and the with 2 coats of enamel paint. And seven tank process must be followed. Cutting making opening for controlling the switches of fixing accessories shall be done in a workman like manner the complete drawing of cubical panel shall be prepared submitted by the electrical contractor for approval of the Engineer in Charge.

#### **6.9 IRON :**

The iron shall be in the form of flats or angle or the channel of various sizes, to suit the requirements. These are to be used for the fabrication of cubical panels, framed etc. for fixing switch gears and accessories. These Iron work or to be cleaned with acid and coated with one coat of red oxide and two coats of enamel paint on the erected imposition.

### **6.10 COPPER STRIPS:**

The copper strip shall be of electro grade for bus bar in the cubical panel the size shall be 50 mm X 10 mm size and for earthing the size shall be used.

The Items include cutting, drilling, fixing with tinned brass nuts bolts and providing installation to bus bars and connection and testing. The earthing strips are to be painted with approved type and quality of paint with connections and fixing as directed.

### **6.11 SUB-BAR SUPPORT:**

The Bus bar support shall be of approved make and quality and bus bar support suitable for 1000 Amps capacity bus bars fixed with tinned brass nut bolts and required distance in the provided cubical panel board.

### **6.12 EARTHING:**

General:

The earthing shall conform to the following specification and also refer to the Indian standard. Type of Earth Electrodes:

- a. Plate type earth electrode: This shall be galvanized a cast Iron plate of 60 cm. X 60 cm. X 3 mm. flat and with bare copper wire of required size as per the Indian standard.
- b. Earth lead : The main earth lead shall be of G.I. strip of 32mm X 6mm thick of R copper trip of 25mm X 3mm flat and with bare copper wire of required size as per the Indian standard.
- c. Location of earth Electrodes: Normally an earth electrode shall not be situated less than 1.5 meter from any building care shall not be situated less than 1.5meter from any building care should be taken that the excavation for earth electrodes may not should be taken that the excavation for earth electrodes may not effect the column footing or foundation of the building or any structure.
- d. Method of Installation and Watering: As per the attached drawing G.I. Pipe for of 19mm dia. C Class with funnel attached at the top end of the pipe for watering shall be provided and shall be housed in a masonry enclosure of not less than 30cm X CM x 30cm with a CA frame with CI cover at the top.

The G.I. earth wire of the required size and no's shall be enclosed I 12mm dia. G.I. C class pipe connected or G. I. strip of 32 X 6mm flat or copper strip nut bolts washers etc, and covered with bituminous compound to avoid rusting. The charcosl and salt layers shall be provided in the pit as per the IS as directed by the Engineer in charge. The record distance between electrodes shall not be less than 4mm or as per the Indian Standard specification for electrical sub station of 630 KVA/11.

**6.13 AMMETER :**

Aluminum lugs shall be heavy duty type made of electro grade aluminium and shall confirmed to IS. This shall be fixed properly by crimping tools of required size and capacity and connected with tinned brass nuts bolts and tested as directed.

**6.14 VOLTMETER :**

The Voltmeter shall be 0-500 volts/50cycles flush type as approved, to be installed on the provided M.S. box including connection with PVC copper wire complete with testing as directed.

**6.15 SELECTOR SWITCH :**

This shall be with a primary winding of 100/5-400-5 ratio as approved, with 15 volts Amps burden to be installed inside the cubical panel including connection copper wire complete with testing as directed.

**6.16 SELECTOR SWITCH :**

This shall be suitable for 3phase A.C. supply, 500 Volts., 50 cycles suitable for voltmeter including connection with PVC copper wire and testing complete.

**6.17 PILOT LAMPS :**

This shall be of approved make and quality to be fixed on panel board with necessary panel fuses and copper PVC wire connection complete with testing.

**6.18 PRINTED INSTRUCTION CHARTS :**

This shall have instructions printed in English and Marathi for training persons suffering form electric shock etc. This charges shall be framed with good quality frame and clear front glass and back covering and to be fixed on the wall as directed.

**6.19 RUBBER MATING :**

The rubber mating shall be of superior quality with high insulation properties and from the approved manufacturer. This shall be of 6mm thickness and of required breadth and length as approved by the Engineer In-charge.

## RECOMMENDED MAKES OF MATERIAL

### A. Electrical Installation

Sr.No.	Particulars	Make
1.	Transformers	Bharat Bijlee, Crompton Greaves, Pactil, Kirloskar or approved by MSEDCL etc.
2.	HT Switchgear	Siemens, Kirloskar, Crompton Greaves, ABB
3.	MV Switchgear	
a)	Air Circuit Breakers	Siemens, English Electric, L&T ,Crompton Greaves, ABB
b)	Moulded Case Circuit Breakers	English Electric, L&T, Crompton Greaves, ABB
c)	Contractors	Siemens, L&T, Crompton Greaves, Cutler Hammer
d)	Meters & Relays	English Electric, Universal, Automatic Electric
e)	Over Loads	Siemens L&T, Cutler Hammer
f)	C.T.	Automatic Electric, Power Pack
g)	Fans	Crompton, Usha, Havells, Bajaj
4.	H.T. Cable	CCI, ICC, Universal, Gloster, Havells, Polycab, Finolex
5.	L.T. Cables	Universal, Glostar, Havells, Polycab, Finolex, K.K. cables
6.	Cable End Terminations Glands & Lugs	Dowells
7.	Cable Trays	MEK, Sadhana, Metal Perforation Pvt. Ltd.
8.	PF capacitors	
a)	Capacitors	Momays, Asian, Khatau, Junker, Power Cap, TIBCON
b)	Relays	Syntron, Phasitron as approved
c)	Ignitare	L&T, Minilac, Philips, Crompton
9.	Distribution Boards	

a)	Fuses	Siemens, English Electric ,L&T,
b)	MCB's	Crompton Greaves, Siemens, MDS, S&G Power, Indo Kopp
c)	Rewirable Fuses	KEW, BOSMA, Crompton greaves, Havell's ,Anchor
d)	Dimmers	L & T, Automatic Electric, rider, Anchor, MK, CPL, ROMA.
e)	M.S. Conduit	Precession
f)	PVC Conduit	Premium
g)	Wires	Finolex, Filco, V. Plast, Polycab & Anchor
10.	Mirror Optic Fittings	Wipro, Crompton Greaves, Philips, Fixolite.
11.	CFL, PL, LED Lamps fittings	Philips, Crompton Greaves, Wipro, Bajaj,. Jaguar,Radiance.

**Sub:- Providing Street light at Filmcity.**

<b>Sr.no.</b>	<b>Item</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amt</b>
1	Providing & erecting 7m high (clear height) galvanised OCTANGONAL pole with foundation bolts having bottom of 135mm A/F, top 70mm A/F on provided foundation as per specification No. OH-PL/OPL	142	Nos	14875	2112250.00
2	Supplying, erecting & terminating XLPE armoured cable 4 core 35 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no.CB-LT/AL	6070	Mtrs	276	1675320.00
3	Supplying and erecting Street light bracket for erection of Single fitting on tubular welded pole with 40 mm. dia 1.0 m long "B" grade G.I. pipe along with pole cap of 125mm dia 600 mm long duly welded as per specification no. FG-BKT/BPC	129	Nos	1342	173118.00
4	Supplying and erecting Street light bracket for erection of Double fitting on tubular welded pole with 40 mm. dia 1.0 m long "B" grade G.I. pipe along with pole cap of 125mm dia 600 mm long duly welded as per specification no. FG-BKT/BPC	13	Nos.	1718	22334.00
5	Supplying and erecting LED street light fitting suitable for above 90W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium and 100 lumens per LED complete per specification No. FGODF/ FLS2.	158	Nos	7115	1124170.00
6	Supplying & erecting mains with 3x2.5 Sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW	1420	Mtrs	74	105080.00
7	Making M- 20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 1.5 m depth including supply of steel, concrete, excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 6m to 8m high octagonal /conical GI pole). The gap between pole and foundation should be fill with cement concrete.	151	Nos	3269	493619.00
8	Making trench of suitable width and depth in soft soil for laying provided LT cable of 16 sq. mm & above and covered with half round hume pipe complete as per specification no. CW-EXNCTR	4940	Mtrs	218	1076920.00

9	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. EAEP	151	Nos	1249	188599.00
10	Supplying, erecting & marking SPMCB 0.5A to 5A in provided distribution board as per specification no. SW-SWR/MCB	142	Nos	218	30956.00
11	Supplying & erecting street light control panel in powder coated CRCA 14/16 SWG sheet, outdoor type, three phase, 415V consisted of suitable rating contactor, 24 hrs digital/ astronomical time switch with minimum 5 years battery backup, TPN MCB 63 A auto/manual selector switch, ON/OFF push buttons, indicator lamps, control wiring, metering device, etc for automatic operation & overcurrent, short circuit, earth fault protection of street lights upto the max load of 12 kW on provided iron frame / CC foundation complete. (DSR 5-2-19)	07	Nos	26722	187054.00
12	Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority.	85	Kgs	119	10115.00
13	Supplying and erecting UPVC reinforced flexible conduit 38/40 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	906	Mtrs	143	129558.00
14	Supplying and fixing wiremesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The jail cover shall be made from good quality G.I. wire mesh size 25 x 25 (mm) and made up of 14 SWG G.I. wire with side / supporting MS strips of suitable size.	158	Nos	417	65886.00
15	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete.	4390	Mtrs	179	785810.00
16	Dismantling the existing pole above 6m height with brackets, clamps, insulators, stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to the ground level.	153	Each	705	107865.00
17	Supplying and erecting 12.5 m (clear height) High Mast (Top-150mm, Bottom- 360mm) with lowering and raising motorized unit lantern carriage assembly suitable for max. 6 nos. luminaries and its control gear box, lightning finial arrangement for fixing aviation light and foundation bolts on provided foundation as per specification no. OH-PL/HM (excluding luminaries).	09	Each	188188	1693692.00
18	Supplying and erecting LED Flood light fitting of 200W, including lamp, with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2	36	Each	21469	772884.00
19	Supplying & erecting mains with 3x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW	112	Mtrs	162	18144.00

20	Supplying and erecting outdoor stand mounted feeder pillar for highmast of the same manufacturer with 32A TPN MCB incomer, single dial timer switch, 25A TP contactor for automatic switching of luminaries, 2 nos 9A contactors and raise/lower push button, and provision for termination of adequate size of incoming and outgoing cables erected in min. 14 SWG CRCA sheet box with supporting angles, self-lock, gasket and slanting top erected with CC foundation complete.	09	Each	25231	227079.00
	Total			+	11000453.00 1980082.00
	Add 18% GST			G.total	12980535.00