

RULES AND GUIDELINES FOR RELEASING E&M (Electrical, VAC & Fire safety) SERVICES



R.K.singh
Sr. DGM/TVE

Kamaljeet
Saluja
Addl. GM/EM-3

Dr. vishwas
Ajmal Khar
Add. GM/EM-2

List of Annexure

1.	Format of Application of Power supply	Annexure-A
2.	Electrical Installation Test Report	Annexure-B
3.	Technical Specifications & Guidelines	Annexure-C
4.	Technical Specifications for Air Conditions works	Annexure-D
5.	Fire and Electrical Inspection report	Annexure-E
6.	Declaration	Annexure-F
7.	Declaration	Annexure-G
8.	List of Applicable charges	Annexure-H



[Handwritten signatures]

List of Abbreviations/Definitions

Sr. No	Abbreviations/Definitions	Description
1.	MMRCL/MMRC	Mumbai Metro Rail Corporation Limited
2.	DG	Diesel Generator
3.	UPS	Uninterrupted Power Supply
4.	O&M	Operation and Maintenance
5.	FRLS	Fire Retardant Low Smoke
6.	LSZH	Low Smoke Zero Halogen
7.	UG	Underground
8.	Licensee/Bidder	one who has been given limited permission to use or occupy part of station premises as approved by MMRCL
9.	EHV	Extra High Voltage
10.	LV	Low Voltage
11.	HV	High Voltage
12.	GIS	Gas Insulated Substation
13.	MERC	Maharashtra Electricity Regulatory Commission
14.	AHU	Air Handling Unit
15.	FCU	Fan Coil Unit
16.	CSAHU	Central Station Air Handling Unit
17.	AC	Air Conditioner
18.	VRV	Variable Refrigerant Volume
19.	BTU	British Thermal Unit
20.	TR	Ton of Refrigeration
21.	NOC	No Objection Certificate
22.	MFS	Mumbai Fire Services
23.	MFB	Mumbai Fire Brigade
24.	FACP	Fire Alarm Control Panel
25.	SCR	Station Control Room
26.	NBC	National Building Code
27.	NFPA	National Fire Protection Agency
28.	FS	Fire Survival
29.	THD	Total Harmonic Distortion
30.	IE Rules	Indian Electricity Rules
31.	IE Act	Indian Electricity Act
32.	TOD	Time Of the Day
33.	FRLSZH	Fire Retardant Low Smoke Zero Halogen
34.	RCCB	Residual Current Circuit Breaker
35.	MCCB	Molded case Circuit Breaker
36.	MCB	Miniature Circuit Breaker
37.	DB	Distribution Board
38.	SPDB	Small Power Distribution Board
39.	BIS	Bureau Of Indian Standards
40.	ERC	Electricity Regulatory Commission
41.	MML-3	Mumbai Metro Line -3
42.	Designated supply point	Depending upon the station and floor level may be a tapping, panel, distribution board and can be verified before applying the connection.
43.	VAC	Ventilation and Air Conditioning



[Handwritten signatures and initials in blue ink]

RULES AND GUIDELINES FOR RELEASING E&M (Electrical, VAC & Fire safety)

SERVICES

1. Electric power required for commercial activity within footprint of metro station is required to be sourced from existing available source of MMRCL at station; availing power supply from outside agencies in MMRCL is not permitted. The disbursement of power at different stations shall be dealt with individually under separate connections.
2. The power supply connection released for commercial activity shall be from the available MMRCL power network, which is reliable having adequate redundancy. DG supply will not be made available. The power fed shall be from normal source without backup network, Licensee/Bidder may however, provide UPS / Inverter at their cost if they so desire, but DG shall not be allowed. Licensee/Bidder shall seek prior approval for technical specification of UPS from MMRCL.
3. MMRCL will attempt to provide electricity at the point nearest to location after getting application as per **Annexure-A**; licensee/Bidder is required to undertake electrical work for extension of power from nominated source and as per cable layout plan released by Electrical O&M at the time of load sanction under MMRCL supervision and complying all codal provisions listed under MMRCL specifications as per **Annexure-C**.
4. Licensee/Bidder shall pay an interest free refundable electricity consumption deposit of **Rs.15,000/- per KVA** for sanctioning of electricity load as per requirement in the form of bank guarantee/e-pay/DD mode and no interest shall be paid by MMRCL on this deposit. A non-refundable one-time electrical supervision charges of **Rs.15,000/- (Fifteen thousand rupees) per energy meter + GST** as applicable shall be paid to MMRCL by the licensee/Bidder.
5. MMRCL provides power supply (Temporary) up to designated supply point on chargeable basis subject to completion of following work by the Licensee/Bidder -
 - In order to avail the temporary supply, the Licensee/Bidder shall give written request to Electrical O&M through concerned controlling department. MMRCL shall provide a Temporary Load of minimum 1KVA or up to 2 KVA for every 100 sqm or proportionate with respect to of leased area. If the Licensee/Bidder desires to have excess load than specified above then excess power of up to 10 KVA may also be granted with the prior approval of Electrical/O&M.
 - Supply and laying of cable including end termination & switchgear of suitable size (rating suitable for allowable electric load) FRLS cable of copper conductor for Elevated/At-Grade section and FRLSZH cable of copper conductor for UG section (from the nominated source to nearest point) as per standard specifications. However, at certain



[Handwritten signatures and initials in blue ink]

locations, already provisions with suitable rated cables and Isolator are provided near to the location, which can be verified by the Licensee/Bidder during his site visit before bidding.

- Licensee/Bidder shall bear the cost of supply and fixing of meter box, energy meter with all necessary electrical safety equipment at designated supply point. Licensee/Bidder shall extend power supply from this Meter box at his own cost and work will be done by electrical contractor having a valid Electrical contractor certificate issued by Govt. of Maharashtra and shall provide installation test report as per **Annexure-B**. Please find attached list of approved makes and specifications to be complied for carrying out electrical works inside leased premises, **Annexure-C**.

Temporary Power supply for fitment of leased area:

- a) If licensee/Bidder desires, they may seek an electrical connection for carrying out fitment of leased area only for fitment period up to 60 calendar days and shall not be allowed to start commercial activity/sale on temporary connection. At the request of licensee/Bidder, electrical O&M shall permit temporary electricity connection for fitment period. The electricity supplied during the period shall be charged as per the prevalent DISCOM guidelines for charges pertaining to temporary supply along with MMRCL fixed electrical asset operation and maintenance charges as mentioned in **Annexure-H** and shall be revised time to time.
- b) Licensee/Bidder shall complete all the electrical works in all aspects, electrical and fire safety compliances within fitment period of up to 60 calendar days on approved temporary load. In case required, Licensee/Bidder must seek with detail reason at least seven days before the end of fitment period for extension of time for completion of all electrical works(including safety compliances). The Licensee/Bidder shall also propose the plan of action for completion of all electrical works (including safety compliances). Such extension of time shall be at sole discretion of MMRCL with or without Penalty on case to case basis.
- c) Any extra load sanctioning required for Licensee/Bidder shall be dealt in a way as given for extension of time as per para b) above.

6. Procedure to convert temporary supply connection to permanent supply connection:

The permanent load shall be supplied normally at the rate of **0.2KVA/sqm of space licensed out in case of Underground station and 0.5KVA/sqm in case of At-Grade station**. However, Minimum load to be given shall be 1 KVA. The excess power if required may be granted/sanctioned subject to availability of spare load with MMRCL.



[Handwritten signature]

[Handwritten signature]

- a) The temporary supply connection may be converted to permanent supply connection at the request of Licensee/Bidder, subject to compliance of following:
 - b) The load shall be given after ensuring all safety compliance and completion of electrical and fire safety works as per **Annexure-E** in leased premises in all respect i.e., complying to the necessary stipulations as specified in these documents, other relevant contract documents, applicable standards and ensuring that work executed by Licensee/Bidder is aesthetically pleasant.
 - c) Format of application for electric connection and lists of documents required is attached at **Annexure-A & Annexure-B**.
 - d) Licensee/Bidder shall select the electrical equipment in such a way that the harmonics generated due to the same and measured at metering point of individual Licensee/Bidder is maintained below 5%.
 - e) The work executed by Licensee/Bidder shall be inspected by MMRCL representative for ensuring compliance of specifications / stipulations of **Annexure-E**.
7. **TARIFF for Permanent Supply:** Rate of electricity shall be charged from Licensee/Bidder which is applicable for concerned DISCOM from where MMRCL is sourcing power along with MMRCL's fixed electrical asset operation and maintenance charges on energy consumption bill as mentioned in **Annexure-H** and shall be revised time to time.
8. Licensee/Bidder has to operate and maintain entire electrical system under its jurisdiction i.e. entire electrical power system downstream from installed energy meter of Licensee/Bidder including meter in line with good maintenance practice to maintain entire system in safe & working condition. Licensee/Bidder has to ensure that all the electrical work done within the Licensee/Bidder premises including wiring, power outlets and gadgets for power distribution & air conditioning system are used, operated and maintained properly for guarding against short circuits/fires and are as per the latest Indian Electricity Rules and other applicable laws, statutory provisions and standards in force at the time, and Licensee/Bidder has to indemnify MMRCL against any loss incurred to the Licensee/Bidder on this account. Further, the Licensee/Bidder agrees that if there is any harm/loss to the property of MMRCL or to any other third party due to fault in the electrical work, outlets or apparatus within the premises of the Licensee/Bidder, all the loss shall be borne by the Licensee/Bidder.
9. At the end of the contract (pre-mature surrender/termination, natural completion, etc.) all cable, energy meter, can be taken back by licensee/Bidder without damaging any of the connected MMRCL accessories i.e. cable trays, and false ceiling etc. If any damage



occurs, the associated cost shall be recovered from Licensee/Bidder as decided by MMRCL representative.

10. MMRCL fixed electrical asset operation and maintenance charges: MMRCL is receiving EHV supply at three different locations in Mumbai from Utility. This supply is further extended by MMRCL through its own network in stations at required voltage levels. To do so, MMRCL has invested huge sum in electrical assets such as transformers, HV cables, LV cables, circuit breakers, GIS, earthing-bonding etc. moreover MMRCL is ensuring the reliability power supply and responsible for operation maintenance of these assets. To compensate it licensee/Bidder shall pay operation and maintenance charges as mentioned in **Annexure-H** on fixed electrical asset operated and maintained by MMRCL up to designated supply point.

11. Theft of electricity and tampering of meter: In case of misuse of electricity, tampering of meter and theft of electricity by Licensee/Bidder is observed by MMRCL then security deposit shall be seized and forfeited and electricity and other utilities provided by the MMRCL shall be terminated immediately. Subsequent action shall be initiated as per MERC guidelines on this subject.

As theft of electricity means financial loss to MMRCL therefore it shall be recovered from Licensee/Bidder as follows. The recovery shall be calculated on the basis of sanctioned electrical load or connected total electrical load as found in theft investigation by MMRCL (whichever is higher) and considering load has been continuously in operation since last six months or for the period established in theft investigation (whichever is higher). For such calculation the tariff/charges mentioned in **Annexure-H** shall be considered.

Recovery payment of financial loss to MMRCL due to the theft of electricity shall be binding to the Licensee/Bidder.

12. Air Conditioning and Exhaust-

- a) For meeting Air conditioning requirement, the Licensee/Bidder will have to access / use the already installed chilled water pipe line tapping provided at each of individual retail shop and thereafter plan/ design their air conditioning system / equipment by way of further distribution of chilled water and installation of FCU/AHUs, ducts etc. and associated electrical works with all cost to be borne by Licensee/Bidder. Already installed Chilled water pipe line tapping system, FCU/CSAHU, ducts etc. are available "as is where is" basis and any rectification/modification/addition regarding their operation as per its own design and requirements shall be carried out by Licensee/Bidder at its own



cost. Electrical consumption for all associated works viz. AHUs/FCUs installed by Licensee/Bidder is to be taken from available load above. Normally no additional load will be made available for the same, however, in case of extremity, Load may be provided subject to technical feasibility with all cost to be borne by Licensee/Bidder. Licensee/Bidder is advised to have a site visit. Licensee is required to submit its plan to MMRCL and MMRCL will check that the plan submitted doesn't adversely affect the station air conditioning system and the works undertaken are in line with safety norms of electrical & fire safety.

- b) Any addition / up-gradation/ modification /rectification in the existing Air Conditioning system to have effective & uniform Air conditioning as per retailer requirements including new/extension of ducts, change of air flow/Air Balancing and provision of extra Fans etc. has to be carried out by Licensee/Bidder at its own cost.
- c) In underground stations, installation of window/ split ACs is not permitted. However, VRV system/Air Cooled Chiller system can be used if technically possible. Licensee/Bidder has to install air conditioning system at their own cost in own premises only. Any addition / up-gradation/ modification to air-conditioning system works that require system augmentation to be taken up subjected to technical feasibility & approval from MMRCL. If approved, same work to be carried out by Licensee/Bidder at its own cost. The dismantled accessories of existing MMRCL installations, if any needs to be handed over to MMRCL.
- d) For Common area at Concourse floor at station, air conditioning & smoke extraction system is already in place and connected from existing system of station. All AHUs installed by Licensee/Bidder to be integrated with Fire alarm and control system in such a way that in event of fire, automatic smoke extraction system should work and all retail area AHUs including common area to be put off automatically for that respective floor level. Any addition/up-gradation/ modification /rectification on basis of above has to be carried out by Licensee/Bidder at its own cost.
- e) Licensee/Bidder has to submit the specifications & scheme for the work carried out for subsequent distribution system including installation of FCUs/ AHUs and ducting and seek approval from MMRCL as per prevailing codes.
- f) Metering –
 - i. All BTU Meters etc. including connected accessories/ meter box / valves modification at connection level etc. are already provided at various locations. However, at certain locations the same needs to be procured, installed and commissioned by Licensee/Bidder at his own cost, as per site conditions.



- ii. Calibrated BTU Meters provided by Licensee/Bidder shall be installed either at single tapping point or least possible no. of tapping points at respective locations i.e. Concourse floor at station to record the actual usage so as to being capable of measuring the entire air conditioning load being fed to Licensee through chilled water pipe system of MMRCL. MMRCL in any case will not provide meters to individual shops/ kiosk. BTU Meters shall be installed at easy accessible location.
- iii. Regular testing/ calibration of all meters at defined interval will be responsibility of retailer.
- g) The Charges of Air conditioning will be based on BTU / TR of actual consumption. The equivalent BTU / TR shall be as under:

$$\bullet 1 \text{ Tr} = 1.494 \text{ units (KVAH)}$$

$$\bullet 10,000 \text{ BTU} = 1.245 \text{ units (KVAH)}$$

- h) Equivalent Energy units derived on the above basis for the cost of providing chilled water supply by MMRCL shall be charged based on same category energy unit rate applicable(DISCOM approved tariff). In addition to above, 20% charges over & above on these air conditioning charges will be added as Operation & Maintenance charges for the high-end installations maintained by MMRCL at stations viz. chillers, Pumps etc (refer the sample bill calculation given below). The licensee shall submit Ton of Refrigeration (ToR) capacity of FCU and shall get it sanctioned from MMRCL. The approval for ToR submitted by the licensee shall be at sole discretion of MMRCL. The work regarding the air-conditioning which includes tapping the water from the MMRCL chilled water pipeline, AHUs, FCUs and other necessary installation for air conditioning shall be done by Licensee. However, for At-grade stations licensee/Bidder may provide AC at his own cost conforming to detailed specifications attached at **Annexure-D**.

eg. Let us say 2.5TR is ToR capacity of FCU

$$1 \text{ TR} = 1.494 \text{ KVA}$$

$$\text{Electrical KVA equivalent of ToR} = 2.5 \times 1.494$$

$$= 3.735 \text{ KVA}$$

$$\text{Fixed charges/ KVA} = \text{Rs. } 470/- \text{ (as per DISCOM Tariff)}$$

$$\text{Fixed charges for Electrical KVA equivalent} = 470 \times 3.735$$

$$= \text{Rs. } 1755.45/- \text{(A)}$$

Let us say TR/Btu meter reading is 100 TR

$$\text{Equivalent Energy units} = 100 \times 1.494$$

$$= 149.4 \text{ KVAh}$$

$$\text{Energy charges of equivalent energy units} = 149.4 \times 7.36 \text{ (as per DISCOM Tariff)}$$



$$= 1096.64/- \dots\dots\dots(B)$$

Wheeling Charges/KVAh = Rs. 0.08/- (as per DISCOM Tariff)

Wheeling charges for equivalent energy units = 1096.64×0.08

$$= 87.73/- \dots\dots\dots(C)$$

Total Air-conditioning Bill (Including O&M charges) = (A) + (B) + (C) x 1.2

$$= 2959.82 \times 1.2$$

$$= \text{Rs. } 3551.88/-$$

- i) The design of kitchen ventilation systems shall include components such as exhaust hoods, exhaust fans, ductwork, filters and makeup air systems. The Contractor shall follow guidelines for calculating exhaust air flow rates based on the type of cooking equipment. Also, the best practices for installation and maintenance of kitchen ventilation systems for effective capture and removal of heat, effluents and grease from cooking kitchens shall be followed.
- j) Availability and provision for kitchen exhaust duct to be checked during Prebid site visit.
- k) For fire safety, grease laden ducts of stainless steel (single wall or double wall as per approval of MMRCL) should be designed to be fire safe and compliant with local building codes. This includes ensuring that the duct has proper clearance from combustibles and that any fires are contained within the ductwork. Adequate scrubbers may be utilized.
- l) Fire rated kitchen exhaust duct shall be connected to nearby exhaust shaft with minimum structural modification with prior approval from MMRCL at Licensee's own cost.

13. Fire Alarm & Control system and Fire NOC:

- a. Existing infrastructure is already meeting the fire provision requirement of all MML-3 station operation area as per category of Fire NOC. Any addition / upgradation/ modification to this existing system on account of change in category of Fire NOC as per Licensee retail planning will have to be carried out by Licensee/ Bidder at his own cost so as to meet all statutory requirement of MFS department.
- b. Already installed fire system consisting of fire and smoke detectors, fire hydrant, fire sprinkles etc are available "as is where is" basis and any rectification/modification/addition regarding their operation to meet National Building Code of India 2016, Maharashtra Building Bye-laws and Maharashtra Fire Service Rules (latest) requirement shall be carried out by Licensee at its own cost.
- c. Licensee has to install FACP panel in proposed area and same is to be integrate with Main Fire Panel at Station concourse level (in SCR).



- d. If, Fire NOC is not available for any of the proposed areas, same has to be processed & pursued by Licensee for approval of the statutory authority with cost involved (if any) to be borne by the Licensee. Periodic renewal of Fire NOC with MFS after validity also has to be pursued by Licensee.
14. Fire and smoke curtains for separating retail and station area from fire to be provided by Licensee/Bidder including any rectification /modification regarding their operation shall be carried out by Licensee at its own cost. Licensee shall submit the specifications & scheme of work to be carried out including installation and seek approval from MMRCL. The fire curtains shall be designed for minimum fire rating period of 120 minutes at 250 degrees centigrade subject to the approval by local fire authority.
- Further any change/addition/ modification/ new requirements imposed by MFS or required as per statutory requirements need to be provided by Licensee/Bidder at its own cost. Fire curtains shall be integrated with station fire alarm system in such a way that in case of fire at any side, fire curtains come down and segregate proposed areas from station operational area.
15. Availability of Existing Infrastructure related to Electrical Power Supply including capacity of Electrical Load that can be sanctioned, air conditioning works, Fire Protection System & Fire NOC with which the retail area shall be leased out to the Licensee/Bidder at various locations/station shall be specified in Tender Document, Licensee may refer **Annexure - H** the same before bidding.



Annexure-A**Format of Application for Power Supply**

<u>Name and Address of Licensee: -</u>			
S. No.	Items	Details	Remarks
1	Station Name		
2	Reference to allotment letter (Copy to be attached)		
3	Load Requirement in kVA (equipment list with load)		
4	Details of submission of Advance Consumption Deposited as per load		
5	Details of Cable installed along with earthing (Make and rating) Attach cable test report		
6	Details of MCCB/MCB installed (make and rating)		
7	Details of RCCB installed (make and rating)		
8	Details of TOD Energy meter installed (Make and rating)		
9	Attach Original Meter Test Report & Calibration Report from NABL accredited laboratory. (IDEMI Mumbai, ERTL Mumbai or as approved by MMRCL)	Yes <input type="checkbox"/> /NO <input type="checkbox"/>	
10	Energy Meter Sealed, if Yes Meter Seal No.		
11	Please confirm whether lockable meter box with earthing has been provided and sealed by MMRCL representative.	Yes <input type="checkbox"/> /NO <input type="checkbox"/>	
12	Attach Cable layout plan (released by Electrical O&M)	Yes <input type="checkbox"/> /NO <input type="checkbox"/>	
13	Attach Electrical Declaration on Rs.100/- Non-judicial Stamp paper As per Annexure - F or G.	Yes <input type="checkbox"/> /NO <input type="checkbox"/>	
14	Please confirm whether fire extinguisher have been provided with make & specification		



[Handwritten signature]

[Handwritten signature]

15	All debris, waste material have been Removed from installation	Yes <input type="checkbox"/> / NO <input type="checkbox"/>	
16	Electrical Installation Test Report by Licensed Electrical Contractor	Yes <input type="checkbox"/> / NO <input type="checkbox"/>	

Procedure

1. Licensee shall apply for temporary connection by submitting it's electrical load details for completion of all electrical works including safety compliances.
2. Licensee shall seek request for quotation in writing for temporary power supply from MMRCL.
3. On receipt of Licensee's request for temporary connection MMRCL shall assess it's load requirements and shall grant the supply upon submitting the evidence of charges as mentioned in Annexure H.
4. Temporary supply shall be provided to licensee for a fitment period of up to 60 calendar days after submitting test report for installation by Licensed electrical contractor.
5. After ensuring completion of all electrical works as per stipulations and compliance of all safety requirements i.e. **Fire safety, clearance by local fire service etc.** Licensee shall apply for permanent connection to Electrical O&M through concerned controlling department in above form.
6. Electrical Department shall carry out inspection as per prescribed Performa at site and if found complied as per test report of Licensed electrical contractor then permanent electric connection shall be released. Fire compliance depends on the size of **Retail area** premises, so detailed Fire inspection Performa is placed at **Annexure- E**.
7. Before execution of electrical work, licensee shall get inspected it's all materials from Electrical O&M supervisor and licensee shall submit all corroborated documents regarding specifications as mentioned in **Annexure-A**.



[Handwritten signature]

[Handwritten signature]

Annexure-B**Electrical Installation Test Report (From Licensed Electrical Report)**

S.N.	Description	Details
1	Name & Address of the Licensee	
2	Location	
3	Shop/bare space / Unipay Payment (Kiosk) Machine / Stall No.	
4	Connected Load, IR values, Ph-N , Ph-Ph etc.	
5	Energy Meter S. No. & Make (Manufacturer's test report is to be enclosed)	

It is certified that all the electrical work at above installation have been carried out in compliance to the IE rules, IE acts adhering to the safety norms, rules and regulations of MMRCL & that of any other statutory body. All men and material and temporary earthing have been removed from our end & the installation is fit for energization.

I shall be responsible on behalf of Licensee for non-compliance of any of the above.
Copy of my valid Govt. electrical contractor license is attached.

Seal & Signature of the Licensee

**Seal & Signature of Electrical Contractor
(Holding Valid Govt. License)**



[Handwritten signature in blue ink]

[Handwritten signature in blue ink]



Annexure-C

TECHNICAL SPECIFICATIONS & GUIDELINES

1. NON STANDARD/ CUSTOMIZED ELECTRICAL APPLIANCES:

General Requirement of Heating Equipment's viz. Potties Burner, Hot Case, Pav Maker, Sweet corn and Momos Machine (Steamer), Oil Fryer Machine, etc.

- Cabling must of LSZH Make conforming to IEC 60332-1 "governs the flame-retardant Grade specifications in reference to LSZH cable" and BS50525-3-41.
- All food Heating Equipment's must have microprocessor-based Timer Cut-Out Provision. The Timer shall switch off the equipment's supply after every 120 minutes.
- In addition, Mechanical based Cut off to be provisioned, using thermal Cut- Off Switch (TCO).
- All appliances internal installations must have PTFE TEFLON Wiring with Jacketing.
- Dual Safety Thermostat must be provisioned.
- Basic Hygiene & Safety Instruction Slip in must be pasted on the equipment in English & vernacular Language.
- An information metallic plate shall be installed on the front of equipment stating its certifications, basic parameters and year of mfg.
- All food heating equipment shall be replaced beyond the completion of 3years from its year of mfg. In case of refrigeration units the duration shall be 5 years.
- Food heating eating element should preferably be in Vertical Position to avoid any chances of fire due to over-exposure of eatables to heat source in horizontal position. In case of horizontal heating elements being used, minimum gap between the Heating element and the Crumb Collection tray must be 6 inches (150mm).
- Vendor must submit the following IS certificates before installing the each heating equipment's:
 - IS Certificate for Heating Element as per IS 4159
 - IS Certificate for Toughened Glass as per IS 2553
 - IS Certificate for Mains Cable with plug as per IS 1294 & IS 694
- The external body of heating appliances must have basic Insulation Properties to deter heat dissipation to items placed in proximity.
- Preferably, heating appliances shall be placed on an insulated surface (ceramic, stone base plate) to avoid propagation of heat to nearby stored materials.
- Oven/potties heater may be of AKASA, Western Refrigeration, Frymaster or equivalent make.



[Handwritten signature]

[Handwritten signature]



Vertical	Main Volume for Patties Warming	Vertical
Heating Element		Heating Element
Position		Position
IS Certified		IS Certified
Crumb Collection Tray		

1. STANDARD ELECTRICAL APPLIANCES

- Refrigeration equipment: - Refrigerators, Deep freezers, water cooler, Ice maker, Ice-cream machine etc.
- Kitchen equipment: - Cooking ovens/grill, Air fryers, Food processor, Mixer, Juicer, Grinder, coffee machine, Sandwich maker etc.
- Air conditioning and Ventilation equipment: - AC's, Fans, Exhaust hoods, Ducting etc.

Acceptable specifications for equipment's under 2.1 & 2.2 are as under:

Sr. No	Equipment detail	Relevant acceptable code/standard	Acceptable Specifications
1	Refrigerator	As per IS 1476 (Part 1): 2000 Performance of Household Refrigerating Appliance — Refrigerators with or Without Low Temperature Compartment	Minimum Gross storage Capacity- as per requirement Voltage Range up to 40 Degree centigrade: - Capable of working on 220 volts + 12 P A.C 50 Hz Power Source- AC , 220 Volts . 50 Hz Method of Defrosting- Frost Free Insulation- Puff / Maxi 2 / Polyurethane Refrigerant Gas- CFC free Defrost system- Auto Defrost Size of wire:- as per IS 9968 (part-1) or 694 whichever is applicable.



[Handwritten signature]

[Handwritten signature]

			Compressor-Power saver compressor Metallic Plate Indicating the Manufacturing date should be fixed behind Equipment.
2	Microwave Oven	As per IS 302 1:1979 & IS 302-2-25 : 1994. Section 25 Microwave Ovens	The microwave oven should be operating at a voltage not exceeding 253 V ac, single phase 50 Hz and under ISM (Industrial, Scientific and medical) bands of (91.5 or 50) MHz or (2 450 & 50 >MHz *ISM frequency bands are electro-magnetic frequencies established by International Treaty for Industrial, Scientific and Medical Purposes. Size of wire:- as per IS 9968 (part-1) or 694 whichever is applicable Operation under overload conditions, Electrical insulation and leakage current. Moisture resistance, insulation resistance and electric strength of appliances with Heating element:- as per IS 302-1 (1979) is applicable
3	Deep Fridge	As per IS 7872	Gross volume in Liters Construction internal: - 304 grade steel External :- corrosion resistance Chest type with CFC- free insulation Should have foam pad cover on top of the basket Solid door with lock and handle Type: - compression cycled, CFC free, all system tubing should be of minimum 99.97a of pure coil. Inlet of capillary should be outside the PUF body. Accuracy of digital controller: - +/- 0.5 degree centigrade. Microprocessor based control unit for setting of temperature and display Power supply: - 220-240V AC, 50Hz Size of wire: - as per IS 9968 (part-1) or 694 whichever is applicable
4	Coffee Machine	As per IS 14144	Degree of protection: IPX0 Protection class: Protection class I Perceptible heat emission: 0.15 kWh/h in standby mode Perceptible heat emission: 7.0 kWh/h in maximum mode Cont. sound level (LpA) < 70 dB (A) Water connection: DN 15, (3/8"j with stop cock Power Supply:- Single/Three phase Size of wire: - as per IS 9968 (part-1) or 694 whichever is applicable
5	Oil fryer machine	As per IS 302-2-13 : 1994 Section 13 Frying Pans, Deep Fat	Power Supply:- 220-240V AC, 50 HZ Control thermostat Safety



[Handwritten signatures and initials in blue ink]

		Fryers and Similar Appliances	<p>thermostat Limit micro switch Line pilot lamp Operation pilot lamp Heating element as per machine design Contactor rating as per machine rating Change over switch Heating element surface temperature not exceeds 350 degree Celsius for Aluminum sheathing and 500 degree Celsius for other sheathing material as per IS 4159:2002 Heating element shall be provided with automatic temperature control and non self re-setting thermal cut out as per IS 4159:2002 Size of wire:- as per IS 9968 (part- T) or 694 whichever is applicable</p>
6	Ice making machine	As per IS 302-2- 24 : 1994 Section 24 Refrigerators, Food-Freezers and Ice-Makers	<p>Power Supply:- 220-240V AC, 50Hz Electrical safety class-I Climate class:- SN, N, ST or T the climatic class of the appliance; Refrigerant:- CFC free Size of wire:- as per IS 9968 (part-1) or 694 whichever is applicable</p>
7	Ice Cream Machine	As per IS 2802: 1964 Specification for Ice-Cream	<p>Rated Power:- as per customer req Shock protection Type:- I Power Supply:- 220V AC, 50Hz Size of wire:- as per IS 9968 (part-1) or 694 whichever is applicable</p>
8	Mixer	As per IS 302 part 2 section 14 and IS 4250	<p>Rated input shall not exceed with 600 watt. Power supply:- 220-240V AC, 50Hz Protection against electric shock as per relevant provision 8 of IS 302. Size of wire:- as per IS 9968 (part-1) or 694 whichever is applicable</p>
9	Water Dispenser	As per IS 1475 (Part 1): 2001 Self-Contained Drinking Water Coolers	<p>Power Supply:- 220-240V AC, 50 Hz Refrigerant- CFC free Size of wire:- as per IS 9968 (part-1) or 694 whichever is applicable</p>
10	Water Cooler	As per IS 1475 (Part 1): 2001 Self-Contained Drinking Water Coolers	<p>Power supply:- 220-240V AC, 50 Hz Degree of protection :- IPXO Size of wire:- as per IS 9968 (part-1) or 694 whichever is applicable</p>



[Handwritten signature]

[Handwritten signature]

2. General Specification for Electrical Works

(ELECTRICAL INSTALLATION & LIGHTING)

- Licensee is required to obtain prior approval of MMRCL before carrying out any work pertain to electrical & fire. The work is required to be executed as per IE rules and through a Licensed Electrical Contractor. All costs associated with provision of electricity shall be borne solely by the licensee. The licensee hereby voluntarily and unequivocally agrees not to seek any claim, damages, compensation or any other consideration whatsoever on account of time and cost associated in making provision of electricity.
- For load up to 10 KVA shall be given in single phase, load above this it shall only be given in three phase. License is required to balance load at his end so that no unbalancing occurs at MMRCL end.
- Industrial socket along with industrial plug (GI box) to be used instead of modular socket for cooking/heating/baking appliances.
- Dedicated & Suitable rating of MCB to be provided for the single circuit.
- In one circuit 2 no's of Power socket or 3 no's of light socket to be installed which shall not exceed the total rating of switchgear and cable.
- All equipment should be connected with dedicated power/light socket according to their rating.
- Licensee shall ensure that single equipment connected with dedicated socket
- Licensee Shall ensure that RCCB (30ma) must be installed at their load end for electrical safety of equipment.
- All cables utilized for completion of all electrical works for at grade and underground stations shall be of copper conductor . Cables for single phase shall be three cores with one core as earth for the single phase, both for elevated and underground station of MMRCL. For three phase load four core cables along with separate 2 nos. of 8 SWG copper wires shall be used for earthing for underground and elevated stations..



[Handwritten signature]

[Handwritten signature]

- For elevated stations all wires shall be FRLS. Cables shall be armoured, XLPE, FRLS. In case of Underground stations all wires shall be FRLSZH and cables shall be armoured XLPE, FRLSZH and conform to NFPA-70, and BS-6724 standard.
- The meter along with MCB-& RCCB box will be metallic and wiring should be done with proper glands, spare holes if any should be sealed. DP MCB & RCCB is required for single phase supply. TPN MCB is required in case of three phases. RCCB, cables, MCB rating for main connection shall be as per sanctioned load.
- Use of any PVC material is not permitted in the Elevated/underground stations.
- Licensee will provide a separate protection for their electrical requirement with proper discrimination to upstream breaker.
- All materials specification must follow standards, codes and specification specified in Table-I.
- In case. the licensee draws power more than the sanctioned load, electricity connection may be disconnected. The electricity connection will be restored on first occasion only when licensee pays necessary penalty as per concern electricity regulatory commission norms and removes excess load. On the subsequent occasion, MMRCL reserves the rights to revoke the license and forfeited the interest free security deposit.
- Only Galvanized Cable tray, Conduit, Ladder type cable tray shall be allowed.
- Internal wiring of luminaries (Light Fittings) and Signage in signage's panel shall also be FRLSZH in case of UG stations & FRLS in case of Elevated stations.
- All Plastic accessories used in luminaries shall be non-flammable material, meeting all the NFPA requirements, preferable by UL and shall be suitable for application at UG station conforming to UL- 94 standards on flammability of material.

Table: 1 –Reference for Electrical Items Selection

	Power requirement (KVA)	Rating of MCB (A, 10 KA)	Rating of RCCB (A, mA)	Cable Size (Sq. mm) DB to Licensee premises	
ELEVATED	0-2	6	16,30	3 Core x 2.5 sq. mm for single phase	3 core Armoured copper
	2-4	16	16,30	3 Core x 4.0 sq. mm for single phase	



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

	4-6	20	25,30	3 Core x 6.0 sq. mm for single phase	conductor, FRLS
	6-8	32	32,30	3 Core x 10 sq. mm for single phase	
	8-10	40	40,30	3 Core x 16 sq. mm for single phase	
	6-8	16	16,30	4 Core x 6.0 sq. mm for three phase	3 core Armoured copper conductor, FRLS
	8-10	16	25,30	4 Core x 10 sq. mm for three phase	
	10-18	25	25,30	4 Core x 16 sq. mm for three phase	
	18-25	40	40,30	4 Core x 25 sq. mm for three phase	
	25-38	63	63,30	4 Core x 35 sq. mm for three phase	
	38-40	63	63,30	4 Core x 50 sq. mm for three phase	
	40-50	100	100,30	3.5 Core x 70 sq. mm for three phase	
UNDERGROUND	0-2	6	16,30	3 core x 4 Sq. mm Copper Conductor (for single phase)	
	2-4	16	16,30	3 core x 4 Sq. mm Copper Conductor (for single phase)	
	4-6	25	25,30	3 core x 6 Sq. mm Copper Conductor (for single phase)	
	5.0-7.0	10	25,30	4 core x 6 Sq. mm Copper Conductor (for three phase)	
	7.0-10.0	16	25,30	4 core x 6 Sq. mm Copper Conductor (for three phase)	
	10.0-18.0	25	25,30	4 core x 10 Sq. mm Copper Conductor (for three phase)	
	18.0-25.0	40	40,30	4 core x 16 Sq. mm Copper Conductor (for three phase)	
	25.0-38.0	63	63,30	4 core x 25 Sq. mm Copper Conductor (for three phase)	
	38.0-40.0	63	63,30	4 core x 35 Sq. mm Copper Conductor (for three phase)	
	40.0-50.0	100	100,30	4 core x 50 Sq. mm Copper Conductor (for three phase)	



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

22

S. No	Item	Approved Makes
1.	GI Conduit Pipes and accessories, ISI Mark	M/s BEC Conduits Pvt. Ltd, M/s AKG Steel Industries (formerly J K Tube Co.), M/s Steel Kraft,
2.	Cable Tray	M/s BEC Conduits Pvt. Ltd, M/s Indiana Gratings Pvt. Ltd., M/s Profab Engineers Pvt., M/s Maheshwari Electricals Pvt. Ltd (MEM), M/s Ratan Projects, M/s Elins Sheet Metal Industries, M/s R.K. Engineering Works, M/s Pentax Ferro Incorporate (For G.I Cable Trays & Accessories), M/s Niedax
3.	FRLSZH, XLPE insulated Copper conductor cables and wires	M/s KEI Industries Ltd. M/s Polycab India Ltd M/s Havells India Ltd M/s LAPP India Pvt. Ltd. M/s Ravin Cables Ltd. For LT Power Cables (FS & LSZH Cables) M/s Apar Industries M/s. LKB Engineering Pvt. Ltd. (Brand-RALLISON) M/s Bonton cables (I) pvt. ltd
4.	Modular Switches, sockets with cover plates	M/s Panasonic Life Solution India Pvt. Ltd M/s Honeywell Electrical Devices & System (M.K) M/s Novateur Electrical(Legrand)
5.	GI Strips, Box and accessories	M/s Ratan M/s Parth Metals M/s New Tech M/s Swastik Industries M/s Parco M/s R.K. Engineering Works
6.	MCB/MCCB, RCBO/RCCB	M/s. L&T, M/s. Siemens, M/s. Schneider, M/s. ABB
7.	Distribution Board	M/s Advance Panels & Switchgears Pvt. Ltd. M/s Tricolite Electrical Industries M/s ABB India Ltd. M/s Novateur Elctrical & Digital systems Pvt. Ltd of Electrical distribution boards including MCB's/RCCB's/ELCB's/ Timers and Accessories (Indoasian-Make) M/s Siemens Limited
8.	Energy Meters with MDI/TOD (pre-paid)	L&T, Secure
9.	Luminaries (only LED Lights)	M/s Signify Innovations India Ltd M/s Surya Roshni Ltd M/s Wipro Pvt. Ltd M/s Bajaj Electricals Ltd M/s Lighting Technologies India Pvt. Ltd. M/s Havells India Ltd M/s Orient Electric Limited M/s Crompton Greaves Consumer Electrical Limited

Note:- MMRCL reserve the right to get tested all material from any govt. accreditation lab and licensee shall bear cost of third party testing. Licensee is required to use only approved make as mentioned above for any other reputed make with prior approval of MMRCL.



[Handwritten signature]

[Handwritten signature]

Annexure D

Specification Of Air Conditioner

Split type air conditioners conforming to IS:1391(Part-2)-1992 with amendment No. 1 fitted with hermetically sealed air compressor operating on refrigerant R-22/R-32 suitable for wall mounting and conforming to following specifications. Split AC shall be preferably five star rated. Approved names are Hitachi/ O-general / Daikin / Carrier or similar equivalent.

General Technical Requirements:-

1. Air conditioners shall be suitable for 230V, 50 Hz single phase AC supply, capable of performing the functions as Cooling, Dehumidifying, Air circulating and Filtering.
2. The air conditioners shall be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled rotary compressor (as applicable), compressor unit operating on Refrigerant R-22/R-32 with suitable rated capacitor start electric motor. It shall be equipped with overload protection. These shall be mounted on resilient mountings for quiet operation. The compressor shall conform to IS: 10617 part (1)-1983 (amendment 1 & 2). Rotary compressor shall be covered by manufacturers test certificate.
3. The air conditioners shall be complete with automatic temperature control and cut - in and cut out etc. for temperature range 16 degrees to 30 deg. C. The differential of the thermostat for cut-in and cut-out shall not be greater than +/- 1.75 deg. C. The Air conditioners may either be provided with adjustable step-less type mechanical thermostat or electronic thermostat as per IS: 11338:1985.
4. The filter pads provided shall be washable.
5. The cabinet of the evaporator unit and condensing unit shall be made from galvanized steel sheet of 1.0mm thick with galvanized coating thickness of 120 gm / sq. mtr and shall be provided with stiffness for robust construction and shall have rounded corners, steel parts/front panel etc. shall have stove-enameled finish preceded by undercoat of anti-corrosive primer paint phosphating and through cleaning-of the surface. Alternate methods of corrosion protection like plastic powder coating, electrostatic painting are-also acceptable in lieu of stove enameled finish.
6. Overall power factor of the unit shall be at least 0.85 at capacity rating test - conditions.
7. Maximum power consumption of the split air conditioners shall be at capacity rating test conditions.
8. Galvanized sheet shall conform to IS:277/2003.
9. Refrigerant used shall be R-134A, R-32, R-417A.



h. gummy

ANF

10. Inbuilt protection in IDU against electrical faults shall be provided. Compressor current shall not flow through Indoor units.
 11. The indoor units made of ABS/HIPS shall be of flame retardant and impact resistant life. ABS/HIPS indoor unit cabinet shall pass in flammability test- requirement for Grade VO as per UL-94. For impact resistance the unit duly packed, when dropped from a height of 1 Mtr. shall show no damage.
 12. Display shall be LED/LCD and provided on indoor unit or on Handset or on both. These displays shall be selectable.
 13. Remote control (Cordless) shall be provided with one On/Off timer, selecting Fan speed (Three speeds) and setting up of-temperature.
 14. Installation of pipes, Insulation and cables beyond 6Mtrs, if required:
 - i. Suction line copper pipe of 0.70mm thickness.
 - ii. Liquid line copper pipe of 0.70mm thickness.
 - iii. Expanded polyethylene foam or other suitable insulation tubing for suction line copper pipe.
 - iv. Drain pipe (15mm dia flexible PVC pipe).
 - v. Suitable capacity 2 core PVC insulated copper wire 2.5mm to electrically connect both the units with each other.
 15. Installation: Location of ODU is to be finalized after approval from I installation at site shall comprise the following work:
 - i. Mounting/Fitting indoor & outdoor units at the respective locations.
 - ii. Laying refrigerant- piping and connecting both the units after drilling hole/holes in the wall, if required. The thickness of the copper tubing shall not be less than 0.70mm.
 - iii. Insulating the suction pipe with expanded polyethylene for 5mm tubing or other suitable.
 - iv. Laying 15mm drain pipe to throw out the condensate water being formed in the indoor unit and connecting it to station drain.
 - v. Leak testing the entire system.
 - vi. Charging Refrigerant-gas in the unit.
- Suitable electric wiring between indoor and outdoor, up to switch at location of indoor unit. Switch/Socket/Plug is also included.



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

Annexure- E

1. SAFETY PROCEDURES:

- a. All attendants of the commercial spaces must be well aware of emergency protocols in case of any fire or electrical failure. (Standard Emergency Protocol order placed at **Annexure-E(1)** for reference)
- b. Last attendant shutting down the premises shall ensure thorough cleaning, safe segregation & de-energizing of electrical appliances prior to leaving. (Standard checklist points attached at **Annexure-E(2)** for reference).
- c. All heating appliances shall be thoroughly cleaned prior to shut down of space, ensuring no waste or ignitable material being present near-by heat source.
- d. **Repetitive to and fro movement damages the wiring arrangements. Hence, all electrical appliances should be kept at fixed designated places and should not be mobile.**
- e. A Stainless Steel plate of minimum size 150 mm X 250 mm (with engraved black/blue letters of font size 25 mm minimum) shall be displayed on the front facade of commercial space with following emergency information:
 - Name and Property No. of Commercial Space.
 - Name and Contact Details of Attendant/ Manager.
 - Name and contact details of Key Personnel.
- f. All licensee's staff shall have basic of Fire Equipment's Training- for selection and usage in case of Fire Emergency.

2. FIRE PROTECTION MEASURES IN EATERY KIOSK, SHOPS:

- a. Any eatery shop/ restaurant shall have Fire Safety Certificate from the local fire authority, as per prevailing Maharashtra Fire Service Guidelines.
- b. As commercial spaces having eatery or cooking facilities, have considerable fire load of material stored and have potential Fire risk, it is imperative to provide additional fire protection measures. Accordingly, minimum fire protection system is to be provided as per below table:



[Handwritten signature]

[Handwritten signature]

S.No.	Comm. Space Description	Fire Extinguishers	Fire Detection System	Fire Sprinklers	Modular based fire extinguisher	Smoke Ventilation
1.	Eatery Kiosks(RC)	Yes	No	No	Yes	No
2.	Eatery Kiosks(UG)	Yes	Yes	Yes	No	No
3.	Restaurants	Yes	Yes	Yes	Wet Chemical agent for Kitchen	Yes
4.	Eatery Kiosk (with cooking)	Yes	Yes	Yes	Wet Chemical agent for kitchen	Yes
5.	Non-Eatery Kiosk	Yes	No	No	No	No

- c. Additional Fire protection arrangements proposed by MFS in compliance with IS codal provisions and statutory requirements shall be abided by Licensee/Bidder.
- d. In case of practical difficulty in connection to nearby fire pipelines, for small kiosks areas modular based fire extinguishers may be allowed in place of Fire sprinklers.
- e. In UG Stations, smoke/ heat detectors can be directly linked up with station FACP, depending on the availability of slots in the loop.
- f. In case of an independent Fire alarm panel for commercial space, same shall be integrated with Station's main panel.

The Licensee shall execute any other additional required work of Fire sprinklers and detection system on its own and E&M team shall facilitate in the integration of the systems.



[Handwritten signature]

[Handwritten signature]

FIRE & ELECTRICAL SAFETY INSPECTION REPORT

Name of Station:
Inspection Representative:
Designation & Department:

PD Licensee Name:
Date:

1.0 FIRE SAFETY PARAMTERS

SN	Fire safety Requirements	Status		Healthiness
		Requirement (YES/NO)	Provided/ Not provided	
1	Automatic Fire Detection and Alarming System:			
1.1	Working Condition of Smoke detectors			
1.2	Fire Panel & its integration			
1.3	Test with Fire alarm signal			
2	Fire Protection System :			
2.1	Availability of adequate nos, type of fire extinguishers & Healthiness of the equipment*			
2.2	Availability of Sprinkler system Physical Condition of Sprinklers Main Isolation Valve (Open/ Close)			
2.3	Modular based Fire Extinguishers			
3	Special Aspect Description			Status
3.1	Kitchen areas: (Not required in case of no kitchen area) Gas detectors for LPG/PNG& its functional status			
3.2	Kitchen hood provided with wet chemical agent protection system			
3.3	60 min compartmentation in between kitchen area and serving area			
3.4	Whether all kitchen hoods are cleaned regularly Last date of hood cleaning done		Last date :	
(*Refilling Due Date. Visible location, Physical Condition, Discharge Pipes etc.)				



h *com*

Arif



2.0 Electrical Safety Parameters Checklist For Licensee/Bidders

SN	Electrical safety Requirements	Status		Healthiness
		YES	NO	
1	Electrical panels/DBs			
1.1	Check for encroachment near electrical panels & DB, if any. detectors			
1.2	Check the condition, earthing & Check the condition, earthing & locking arrangements of electrical panel			
1.3	Check thimbles, lugs & glands in cable termination			
1.4	Protection system installed in the circuit (RCCB of appropriate rating or not more than 30 mA). Check/Operate from test switch			
1.5	Dedicated MCB to be used for dedicated circuit			
2	Cables & Wiring			
2.1	Check for cable dressing in cable tray or conduiting			
2.2	Check for cable specification as per load			
2.3	Check if any hanging electrical wires, loose joints, extension board or open wiring etc.			
3	Switches & sockets			
3.1	Check for condition & rating of plugs tops, switches, loose sockets/wire If any			
3.2	Check Industrial socket (GI box) installed in premises for electrical equipment			
3.3	Check supply taken from industrial socket through top plug of proper rating			
3.4	Check single equipment connected with single & dedicated industrial socket			
3.5	Check all installed switch and sockets in PB premises securely fixed and undamaged.			
3.6	All main switches readily accessible and clearly identified.			
4	Metering			



Handwritten signature

Handwritten signature

4.1	Energy meters in PD/PB premises should be properly sealed by MMRCL authorized person/staff.			
4.2	MDI (Maximum Demand) of previous month is within the saction load.			
4.3	Energy meter shall measure reading in both KWH & KVAH.			
5 Miscellaneous				
5.1	All electrical equipment should be properly grounded to prevent electrocution or fire			
5.2	Switchgear/Cables/wires shall be of approved make and specifications are as per latest MMRCL policy			
5.3	All electrical appliances shall be of standard make and in health / cleaned state.			
5.4	Heating mark observed in socket, top plug or any installed electrical equipments			
5.5	Check flammable/ combustible material stacked near electrical points			
A.	Serious Non- compliances directly affecting Occupant's Life Safety	Compliance Time to attend (Immediate/within a week/ etc.)		
B	Minor Non- compliances, (A separate list to be attached with joint signatures)	Total_Minor non-compliances		



[Handwritten signature]

[Handwritten signature]

3.0 Fire Safety Inspection Check- Sheet

[For Kiosk/ Shops area up to 250 sq mm inside station building]

PD/PB Licensee:
Line:

Date:

Floor Area:

Floors:

Station:

SN	Check Point	Observation	Remarks
KIOSK (upto 100 sq mm area)			
1	Provision of fire extinguishers		
a	Up to 10 sq mm : One ABC 2 Kg fire extinguishers		
b	Above 10 m2 and below 50 m2 : One ABC 4 Kg fire extinguisher		
c	Above 50 m2 and below 100 m2 : One ABC 4 Kg fire extinguisher and one 9 ltr water type extinguisher		
SHOPS (up to 250 sq mm area as integrated design part of metro station)			
1	Provision of fire extinguishers		
a	Up to 10 sq mm : One ABC 2 Kg fire extinguishers		
b	Above 10 m2 and below 50 m2 : One ABC 4 Kg fire extinguisher		
c	Above 50 m2 and below 100 m2 : One ABC 4 Kg fire extinguisher and one 9 ltr water type extinguisher		
d	Above 100 m2 and below 250 m2 : Atleast two ABC 4 Kg fire extinguisher and two 9 ltr water type extinguisher		
2	Provision of smoke detector		
a	At true ceiling level provided by MMRCL		
b	Below false ceiling provided by licensee and connected with station FACP		
c	Smoke detector/s available in each room		
3	Provision of Sprinklers		
a	At true ceiling level provided by MMRCL		
b	Below false ceiling provided by licensee and connected with station sprinkler line		



[Signature]

[Signature]

[Signature]

c	Sprinkler/s available in each room		
OTHER CHECK POINTS			
1	Any unsafe electrical works?		
2	Other applicable fire prevention, life safety and fire protection measures with respect to occupancy class is implemented ?		
3	Is good house-keeping practice followed ?		
<p>Note: For bigger commercial spaces, i.e. More than 250 m2 area, joint inspection will be conducted on the basis state fire service's issued directives and approved plan for execution by licensee.</p>			

MMRCL Inspecting Official Details:		Licensee Details:
Sign:	Sign:	Sign:
Name:	Name:	Name:
Emp ID:	EMP ID:	Emp ID:
Department:	Department:	Department:



[Handwritten signature]

[Handwritten signature]



Annexure- E(1)

Fire Emergency Protocols/ अग्नि आपातकालीन प्रोटोकॉल/ फायर इमर्जन्सी प्रोटोकॉल :

1. Stay Alert/ सतर्क रहें/ सतर्क रहा -:
Immediately activate the fire alarm system upon discovering a fire.
आग लगने का पता चलने पर तुरंत फायर अलार्म सिस्टम सक्रिय करें
आग लागल्यावर लगेच फायर अलार्म सिस्टम सक्रिय करा.
2. In the absence of an automatic alarm, alert all individuals by shouting "Fire" to raise awareness.
स्वचालित अलार्म की अनुपस्थिति में, जागरूकता बढ़ाने के लिए "आग" चिल्लाकर सभी व्यक्तियों को सचेत करें
स्वयंचालित अलार्मच्या अनुपस्थितीत, जागरूकता वाढवण्यासाठी "फायर" ओरडून सर्व व्यक्तींना सतर्क करा.
3. Cordon off/ घेराबंदी करना/ गराडा बंद:
4. Try to isolate the incident area and stop further propagation.
घटना क्षेत्र को अलग करने और आगे प्रसार रोकने का प्रयास करें
घटना क्षेत्र वेगळे करण्याचा प्रयत्न करा आणि पुढील प्रसार थांबवा
5. Try to electrically shut down the equipments& circuits in the incident area.
घटना क्षेत्र में उपकरणों और सर्किटों को विद्युत रूप से बंद करने का प्रयास करें।
घटना क्षेत्रातील उपकरणे आणि सर्किट्स इलेक्ट्रिकली बंद करण्याचा प्रयत्न करा
6. Fire Extinguisher Usage/ अग्निशामक यंत्र का उपयोग/ अग्निशामक यंत्राचा वापर :
7. In the initial stages of a small fire, trained staff should attempt to use fire extinguishers and other means of fire fighting such as hose reels & fire hydrants.
छोटी सी आग के प्रारंभिक चरण में, प्रशिक्षित कर्मचारियों को अग्निशामक यंत्र और अग्निशमन के अन्य साधनों जैसे होज़ रील और अग्नि हाइड्रेंट का उपयोग करने का प्रयास करना चाहिए।
लहान आगीच्या सुरुवातीच्या टप्प्यात, प्रशिक्षित कर्मचार्यांनी अग्निशामक आणि अग्निशामक इतर साधनांचा वापर करण्याचा प्रयत्न केला पाहिजे जसे की होज रिल्स आणि फायर हायड्रंट्स



[Handwritten signature]

[Handwritten signature]

8. Do not endanger personal safety; prioritize evacuation if the fire escalate

व्यक्तिगत सुरक्षा को खतरे में न डालें; आग लगने पर निकासी को प्राथमिकता दें।

वैयक्तिक सुरक्षितता धोक्यात आणू नका; आग वाढल्यास बाहेर काढण्यास प्राधान्य द्या.

9. Evacuate/ खाली करना/ खाली करा:

10. Direct passengers and staff to egress from the nearest and safest exit routes.

यात्रियों और कर्मचारियों को निकटतम और सबसे सुरक्षित निकास मार्ग से बाहर निकलने के लिए निर्देशित करें

प्रवासी आणि कर्मचार्यांना जवळच्या आणि सुरक्षित निर्गमन मार्गावरून बाहेर जाण्यासाठी निर्देशित करा

11. Avoid the use of elevators during a fire; only use stairs for evacuation.

आग लगने के दौरान लिफ्ट के उपयोग से बचें; निकासी के लिए केवल सीढ़ियों का उपयोग करें

आगीच्या वेळी लिफ्टचा वापर टाळा; बाहेर काढण्यासाठी फक्त पायऱ्या वापरा

12. Emergency Services Contact/ आपातकालीन सेवाएँ संपर्क/ आपत्कालीन सेवा संपर्क:

13. Call emergency services (dial 110) to report the fire and provide detailed information.

आग की रिपोर्ट करने और विस्तृत जानकारी प्रदान करने के लिए आपातकालीन सेवाओं (डायल 110) को कॉल करें

आगीची तक्रार करण्यासाठी आणि तपशीलवार माहिती देण्यासाठी आपत्कालीन सेवांवर कॉल करा (110 डायल करा)

14. Call Station Control Room (_____) and report the incident for support and response.

स्टेशन नियंत्रण कक्ष को कॉल करें () और समर्थन और प्रतिक्रिया के लिए घटना की रिपोर्ट करें।

स्टेशन कंट्रोल रूमला कॉल करा () आणि समर्थन आणि प्रतिसादासाठी घटनेची तक्रार करा



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

Annexure- E(2)

Before closing a restaurant, eatery shop, food court or similar nature of commercial property, it is crucial to ensure the de-energization of non-essential appliances and lighting, as well as to implement fire safety measures. Here are standard checkpoints to follow for a comprehensive closing procedure:

De-Energization of Non-Essential Appliances and Lighting:

1. Kitchen Area:

- Ensure that only essential appliances (storage units for perishable food items) shall remain ON, rest Turn off and unplug all non-essential kitchen appliances, such as blenders, ice machines, grills, fryers, ovens, and others.
- Recheck for cleaning of areas below and adjacent to heating appliances; such as patties heater, food warmer, hot case etc.
- All hot surfaces must be secured/ cooled before closing.
- Ensure that gas connections are securely turned off, if applicable. Confirm that all gas shut-off valves in the kitchen are securely turned off.
- Verify that all kitchen hood and exhaust systems are powered down. Report for excess deposition of oil grit in hood and ducting's, if present.

2. Dining/ Common Area:

- Switch off and unplug all non-essential electrical equipment in the area, including coffee machines, cash registers, and electronic point-of-sale systems.
- Recheck for cleaning of areas below and adjacent to heating appliances; such as patties heater, food warmer, hotcase etc.
- Turn off unnecessary lighting fixtures, HVAC & Ventilation systems.
- Remove all unnecessary wastage and combustibles from the area.



[Handwritten signature]

[Handwritten signature]

3. Storage Areas & Office Spaces:

- De-energize equipment and lighting in storage areas.
- Switch off all non-essential office equipment, including computers, printers, and scanners, office lighting and air conditioning systems.
- Ensure Clearance of spaces between electrical appliances and spillages.
- Ensure that emergency exit signs remain illuminated.

4. Electrical Panel Checks:

- Conduct a visual inspection of the electrical panel to identify any signs of wear, damage, or loose connections.
- Ensure that all circuit breakers are in the "off" position for non-essential circuits.

5. Secure Flammable Materials:

- Safely store and secure any flammable materials away from potential sources of ignition.
- Check that waste bins are emptied and cleared of any flammable debris.

6. Final Walkthrough:

- Conduct a final walk through of the premises to confirm that all non-essential appliances, lighting, and equipment are de-energized.
- Verify that fire safety measures are in place and functioning as intended.

By systematically following these checkpoints, you can ensure the safe and efficient closure of the restaurant, minimizing potential hazards and contributing to overall safety and energy conservation.

Documentation: (Recommended)

- Licensee should keep a log of daily safety checks and closures, including any issues identified and corrective actions taken.
- Document the contact information for key personnel responsible for emergencies.



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

Annexure-F**Declaration**

[For Elevated Stations - On Non Judicial Stamp Paper of Rs. 100/-] (Duly notarized)

I _____, son/daughter/wife of _____
Resident of _____ (hereinafter referred to as the
"Bidder", which term shall mean and include executors, administrators, heirs,
successors and assigns), do hereby swear and declare as under:

OR

_____, a company incorporated under the provision of the
Companies Act 1956, a sole proprietorship, a partnership having its registered office
at _____ (hereinafter referred as "Bidder", which
expression shall unless repugnant to the context or meaning thereof, include its
successors and assigns), do hereby swear and declare as under:

That the Bidder is an occupant of the premises no. _____ at
_____ having taken the premises from MMRCL on the terms and
conditions agreed to with MMRCL which include that MMRCL may supply electricity
as a part of the lease or license of the premises, based on the commercial
arrangement.

The Bidder has requested the MMRCL to provide an electricity connection at the
above-mentioned premises in the Bidder's name for the purpose mentioned in the
application form.

The Bidder hereby agrees and undertakes:

1. That the Bidder desires to have and agrees with MMRCL to take supply of energy
for the above mentioned purpose, for a period of not less than two years from
the date of commencement of supply and to pay for the energy so supplied and
all other charges at the rates set out in the concerned State Electricity Regulatory
Commission's Tariff Schedule and the miscellaneous charges for supply as may



Handwritten signature in blue ink.

Handwritten signature in blue ink.

be in force from time to time, including advance Consumption Deposit and charges mentioned in **Annexure-H** etc.

2. Licensee shall provide Test Report/Calibration report from NABL accredited Laboratory approved by MMRCL (IDEMI, ERTL or as approved by MMRCL). MMRCL may ask Licensee/Bidder to recalibrate the Energy Meter whenever considered necessary from the NABL accredited Laboratory which are approved by MMRCL.
3. That the Bidder shall have no objection for the DISCOMs to carry out Inspections of the Bidders' Meters & Equipment's & Any Observation made by such Agencies, Which are acceptable to MMRCL, shall be binding on the Bidder for Attention/Compliance.
4. That MMRCL shall be entitled to disconnect the supply of energy by issuing a disconnection notice of 7 days in writing to the Licensee/Bidder, if the Licensee/Bidder is in default of payment of the due charges.
5. The Licensee/Bidder shall pay the full amount mentioned in the Monthly Consumption Bill as raised by MMRCL before the last date mentioned in issued Monthly bill.
6. That all or any taxes/duties, as may be levied on the supply of electricity to the Licensee/Bidder by MMRCL, shall be paid and borne by the Bidder.
7. That the Licensee/Bidder agrees that MMRCL would accept an application from the Bidder for reduction in load only after two years from the original sanction. All applications for load enhancement by the Bidder would be dealt with by MMRCL as a new connection and MMRCL would follow the procedure as in the case of a new connection.
8. That MMRCL shall have the right to recover the fixed charges due as per applicable tariff for the remaining contracted period in case the contract is terminated prior to the expiry of the contracted period.
9. That all the electrical work done within the Bidder's premises including wiring, power outlets and gadgets are used and maintained properly for guarding against short circuits/fires and are as per the Indian Electricity Rule, 1956 and other applicable laws, statutory provisions and standards in force at the time, and indemnify MMRCL against any loss incurred to the Bidder on this account. Further, the Licensee/Bidder agrees that if there is any harm/loss to the property



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

of MMRCL or to any other third party due to fault in the electrical work, outlets or apparatus within the premises of the Bidder, all the loss shall be borne by the Licensee/Bidder.

10. To pay MMRCL all costs and expenses that MMRCL may incur by reason of a fresh service connection being given to the Licensee/Bidder.
11. To indemnify MMRCL against all proceedings, claims, demands, costs, damages and expenses that MMRCL may incur by reason of a fresh service connection given to the Bidder.
12. To be bound by MMRCL's conditions of supply, and all applicable acts and rules.
13. That MMRCL shall not be responsible for any interruption of supply and losses incurred if any due to interruption of supply to Licensee/Bidder.
14. Others :
 - 13.1 Licensee/Bidder shall have to provide a Low voltage switch-board with MCBs & RCCB's of required capacity with Electronics Static Energy Meters having provision of TOD etc. of required capacity at his cost conforming to relevant BIS standards and of approved make along with test certificate shall be arranged by the Bidder. The meter shall sealed by MMRCL, either within the premises of the Bidder or at a common meter room/board. Bidder shall not tamper with or disturb the meter in any manner whatsoever, and shall be responsible for its safety (if installed within his premises).
 - 13.2 MMRCL shall provide supply, if available, at one fixed point as per MMRCL plan. All cabling work to tap off the supply from the fixed point and to avail it within his premises shall be done by the Bidder.
 - 13.3 Only FRLS (as applicable) cable of required size shall be used for tapping off supply from MMRCL fixed supply to Licensee/Bidder premises in rigid GI Conduit pipe.
 - 13.4 Licensee/Bidder shall also do wiring within his shop/bare space/stall by using GI conduit or fire resistance PVC casing/caping. The Licensee/Bidder shall use FRLS copper wire of the required size (the wiring scheme, the type of wiring, size of wires, various loads, plug point, light fan etc. shall be as per MMRCL's approval).



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

- 13.5 MMRCL shall provide Power Supply of single phase, 230V ($\pm 10\%$), 50Hz for a max. Connected load up to 10kW, Electrical load requirement exceeding 10 KW shall be given on 3-phase, 415V ($\pm 10\%$), 50Hz subject to availability.
- 13.6 Licensee/Bidder shall be given only normal power supply available in station premises. Licensee/Bidder may use suitable voltage stabilizers and power factor correction equipment as per his requirement with prior approval by MMRCL. MMRCL shall not be providing any standby power supply from station DG set or UPS.
- 13.7 Licensee/Bidder shall not be permitted to use any standby Diesel Generator Sets. Licensee shall only be the permitted to use standby UPS/Inverter system shall also be taken as a part of total connected load. Licensee/Bidder shall seek technical specification approval from MMRCL.
- 13.8 Licensee/Bidder shall use Energy efficient lighting & shall provide proper Lighting fixtures, Lamps, LED etc. Licensee shall provide uniform & good illumination level not less than 200 Lux in any case.
- 13.9 Licensee/Bidder shall use reputed Brand/make Electrical wiring and switch gear items. The Licensed Electrical Contractor at Licensee's/Bidder's cost shall carry the entire work. MMRCL's representative shall inspect and supervise the work.
- 13.10 Licensee/Bidder shall provide proper Earthing connection as per the applicable standards and shall terminate the same to the MMRCL's Distribution Board or to any other place as directed by the MMRCL. Installation Test Report issued by licensed electrical contractor in the prescribed format (available with the application form) and countersigned by the Bidder shall be submitted by the Licensee. Every shop/bare space/property Development area must have enough Fire Extinguishers as stipulated.
- 13.11 Licensee/Bidder shall not be allowed to provide Room Heating appliance of any kind.
- 13.12 The power shall be supplied normally at the rate of 0.5 KVA/Sq.Mtr. of space licensed out. Minimum load to be given shall be 1 KVA on which the security deposit charges as applicable shall be paid by the



Licensee/Bidder. The excess power if required may be granted subject to availability of spare load with MMRCL.

13.13 In case, Licensee/Bidder draws power more than the connected load, his electricity connection shall be disconnected. The electricity connection shall be provided back on first occasion only when Licensee pays necessary penalty as per State ERC norms and removes excess load. On the subsequent occasion, MMRCL reserves the right to revoke the license and forfeit the interest free security deposit after adjustment of all dues what so ever.

13.14 Theft of electricity and tampering of meter: In case of misuse of electricity, tampering of meter and theft of electricity by Licensee/Bidder is observed by MMRCL then security deposit shall be seized and forfeited and electricity and other utilities provided by the MMRCL shall be terminated immediately. Subsequent action shall be initiated as per MERC guidelines on this subject.

15. That the Licensee/Bidder shall have no objection at any time to the rights of MMRCL to supply energy to any other consumer from the service line or apparatus installed on the Bidder's premises.
16. That the supply shall be used for the purpose that it has been sanctioned by MMRCL and shall not be misused in any way to serve any other purposes.
17. That the supply shall not be extended/sublet to any other premises.
18. That the Bidder's industry/trade has not been declared to be obnoxious, hazardous/pollutant by any Government agency and that no court orders are being infringed by grant of applied electricity connection at the Bidder's premises.
19. That MMRCL shall be at liberty to adjust the electricity consumption charges along with any other charges against the consumption deposit paid by the Bidder, in the event of termination of the agreement prior to the expiry of the contracted period or in case of any contractual default.
20. That MMRCL shall be at liberty to transfer the dues remaining unpaid by the Bidder, after adjusting the advance consumption deposit, to other service connections(s) that may stand in the Bidder's name.



21. To allow clear and unencumbered access to the meters for the purpose of meter reading, maintenance, inspection, checking, testing etc.
22. That MMRCL shall be entitled to disconnect the service connection under reference in the event of any default and /or non-compliance of statutory requirements and/or in consequence of legally binding order by statutory authority(ies)/court of Law, without prejudice to the MMRCL's rights to exercise its rights under law including that of getting its due payments as on the date of connection. The Bidder undertakes to pay penalty imposed by MMRCL on its own discretion for the damages caused to the leased property on account of any default or non-compliance of any statutory requirements.
23. That all details furnished in this Requisition form are true to the Bidder's knowledge. If any information is found incorrect at a later date, MMRCL shall have the right to withhold/disconnect supply, as the case may be, and forfeit the advance consumption deposit.
24. The Bidder acknowledges and accepts that the relationship of the Bidder with MMRCL is not that of a consumer and a Licensee but that of a commercial arrangement where the Bidder has taken on lease/license premises of MMRCL and the Electricity connection is being provided as a part of the above arrangement.
25. The Bidder hereby acknowledges and declares that, its shall follow and abide by the latest MMRCL policy (Rules and guidelines for releasing E&M (Electrical, VAC & Fire safety)) without any objections.
26. The Bidder further agrees that this declaration given by him shall be construed as an agreement with the MMRCL to the above effect.

Date:

Place:

Signature of Bidder
(Full name)



Signed and delivered in the presence of:

Witness 1

Signature _____

Full

Name _____

Complete

Address _____

Phone

No. _____

Witness 2

Signature _____

Full

Name _____

Complete

Address _____

Phone

No. _____

List of Documents to be submitted along with Declaration

1. Installation Test Report issued by Licensed Electrical contractor in the prescribed format (available with the application form) and countersigned by the Bidder.
2. Proof of allotment of the space/area leased out by MMRCL in the form of the following:
 - a) Allotment/possession letters, Lease deed
 - b) General Power of Attorney together with proof of ownership of the executor.
{Applicable in case of company}



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

Annexure-G**DECLARATION**

[For Under Ground Stations - On Non judicial stamp paper of Rs. 100/-] (Duly notarized)

I _____, son/daughter/wife of _____ Resident of _____ (hereinafter referred to as the "Bidder", which term shall mean and include executors, administrators, heirs, successors and assigns), do hereby swear and declare as under:

OR

_____, a company incorporated under the provision of the Companies Act 1956, a sole proprietorship, a partnership having its registered office at _____ (hereinafter referred as "Bidder", which expression shall unless repugnant to the context or meaning thereof, include its successors and assigns), do hereby swear and declare as under:

That the Bidder is an occupant of the premises no. _____ at _____ having taken the premises from MMRCL on the terms and conditions agreed to with MMRCL which include that MMRCL may supply electricity as a part of the lease or license of the premises, based on the commercial arrangement.

The Bidder has requested the MMRCL to provide an electricity connection at the above-mentioned premises in the Bidder's name for the purpose mentioned in the application form.

The Bidder hereby agrees and undertakes:

1. That the Bidder desires to have and agrees with MMRCL to take supply of energy for the above mentioned purpose, for a period of not less than two years from the date of commencement of supply and to pay for the energy so supplied and all other charges at the rates set out in the concerned State Electricity Regulatory Commission's Tariff Schedule and the miscellaneous charges for supply as may



R

company

[Signature]

- be in force from time to time, including advance Consumption Deposit and charges mentioned in Annexure H.
2. Licensee shall provide test report/calibration report from NABL accredited laboratory approved by MMRCL (IDEMI, ERTL or as approved by MMRCL). MMRCL may ask licensee/bidder to re-calibrate the energy meter whenever considered necessary from NABL accredited laboratory which are approved by MMRCL.
 3. That the Bidder shall have no objection for the DISCOMs to carry out Inspections of the Bidders' Meters & Equipment's & Any Observation made by such Agencies, Which are acceptable to MMRCL, shall be binding on the Bidder for Attention/Compliance.
 4. That MMRCL shall be entitled to disconnect the supply of energy by issuing a disconnection notice in writing of 07 days , to the licensee/Bidder, if the Bidder is in default of payment of the due charges.
 5. That the licensee/Bidder shall pay the full amount mentioned in the Monthly Consumption Bill as raised by MMRCL before the last date mentioned in issued Monthly Bill.
 6. That all or any taxes/duties, as may be levied on the supply of electricity to the licensee/Bidder by MMRCL, shall be paid and borne by the licensee/Bidder.
 7. That the Bidder agrees that MMRCL would accept an application from the licensee/Bidder for reduction in load only after two years from the original sanction. All applications for load enhancement by the licensee/Bidder would be dealt with by MMRCL as a new connection and MMRCL would follow the procedure as in the case of a new connection.
 8. That MMRCL shall have the right to recover the fixed charges due as per applicable tariff for the remaining contracted period in case the contract is terminated prior to the expiry of the contracted period.
 9. That all the electrical work done within the licensee/Bidder's premises including wiring, power outlets and gadgets are used and maintained properly for guarding against short circuits/fires and are as per the Indian Electricity Rule, 1956 and other applicable laws, statutory provisions and standards in force at the time, and indemnify MMRCL against any loss incurred to the licensee/Bidder on this account. Further, the licensee/Bidder agrees that if there is any harm/loss to the



property of MMRCL or to any other third party due to fault in the electrical work, outlets or apparatus within the premises of the licensee/Bidder, all the loss shall be borne by the licensee/Bidder.

10. To pay MMRCL all costs and expenses that MMRCL may incur by reason of a fresh service connection being given to the licensee/Bidder.
11. To indemnify MMRCL against all proceedings, claims, demands, costs, damages and expenses that MMRCL may incur by reason of a fresh service connection given to the bidder.
12. To be bound by MMRCL's conditions of supply, and all applicable acts and rules.
13. That MMRCL shall not be responsible for any interruption/diminution of supply and losses incurred if any due to interruption of supply to Licensee/Bidder.
 - 13.1 From the MMRCL DB to main MCB / MCB of shop/bare spaces only XLPE insulated armoured copper conductor FRLSZH cables shall be used. Licensee shall have to provide a Low voltage switch-board with MCBs& RCCB's of required capacity with Electronics Static Energy Meters having provision of MDI, TOD etc. of required capacity at his cost conforming to relevant BIS standards and of approved make along with test certificate shall be arranged by the Bidder. The meter shall be installed and sealed by MMRCL, either within the premises of the licensee/Bidder or at a common meter room/board (Common meter room is locked & key, access is not permitted to licensee). Licensee/Bidder shall not tamper with or disturb the meter in any manner whatsoever, and shall be responsible for its safety.
 - 13.2 MMRCL shall provide supply, if available, at one fixed point as per MMRCL plan. All cabling work to tap off the supply from the fixed point and to avail it within his premises shall be done by the licensee/Bidder. Approval shall be taken from Electrical O&M through concerned controlling department. The Licensee hereby voluntarily and unequivocally agrees not to seek any claim, damage, compensating or any other consideration what so ever on account of time and cost associated in making provision of electricity.
 - 13.3 That the use of any PVC material is not permitted in the underground stations.
 - 13.4 Licensee shall also do wiring within his shop/bare space/stall/KIOSK by using GI conduit. The Licensee shall use FRZHLs copper wire of the



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

required size (the wiring scheme, the type of wiring, size of wires, various loads, plug point, light, fan etc. shall be as per MMRCL's approval).

- 13.5 MMRCL shall provide Power Supply of single phase, 230V ($\pm 10\%$), 50Hz for a max. connected load up to 10 KW, Electrical load requirement exceeding 10 KW shall be given on 3-phase, 415V ($\pm 10\%$), 50Hz subject to availability.
- 13.6 Licensee shall be given only normal power supply available in station premises. Licensee may use suitable voltage stabilizers and power factor correction equipment as per his requirement with prior approval by MMRCL. MMRCL shall not be providing any standby power supply from station DG set or UPS.
- 13.7 Licensee shall not be permitted to use any standby Diesel Generator Sets. Licensee shall only be the permitted to use standby UPS/Inverter System with maintenance free battery. The Load of such standby UPS/Inverter system shall also be taken as a part of total connected load licensee/Bidder shall seek technical specification approval from MMRCL. Licensee/Bidder shall use reputed brand/make electricals wiring and switch gear items. Licensee electrical contractor at Licensee's/Bidder's cost shall carry the entire works. MMRCL representative shall inspect and supervise the work.
- 13.9 Licensee shall use Energy efficient lighting & shall provide proper Lighting fixtures, Lamps, LED etc. Licensee shall provide uniform & good illumination level not less than 200 Lux in any case.
- 13.10 Licensee shall provide proper Earthing connection as per the applicable standards and shall terminate the same to the MMRCL's Distribution Board or to any other place as directed by the MMRCL. Installation Test Report issued by licensed electrical licensed electrical contractor in the prescribed format (available with the application form) and countersigned by the Bidder shall be submitted by the Licensee.
- 13.11 Fire Extinguisher: Every shop/bare space/ property Development area must have enough Fire Extinguishers as stipulated.
- 13.12 Licensee shall not be allowed to provide Room Heating appliance of any kind.



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

- 13.13 The power shall be supplied normally at the rate of 0.2 KVA/sq. m. of space licensed out. Minimum load to be given shall be 1 KVA on which the security deposit charges as applicable shall be paid by the Licensee. The excess power if required may be granted subject to availability of spare load with MMRCL.
- 13.14 In case, Licensee draws power more than the connected load, his electricity connection shall be disconnected. The electricity connection shall be provided back on first occasion only when Licensee pays necessary penalty as per State ERC norms and removes excess load. On the subsequent occasion, MMRCL reserves the right to revoke the license and forfeit the interest free security deposit after adjustment of all dues what so ever.
- 13.15 Theft of electricity and tampering of meter: In case of misuse of electricity, tampering of meter and theft of electricity is observed by MMRCL then security deposit shall be seized and forfeited and electricity and other utilities provided by the MMRCL shall be terminated immediately. Subsequent action shall be initiated as per MERC guidelines on this subject.
14. That the Bidder shall have no objection at any time to the rights of MMRCL to supply energy to any other consumer from the service line or apparatus installed on the licensee/Bidder's premises.
15. That the supply shall be used for the purpose that it has been sanctioned by MMRCL and shall not be misused in any way to serve any other purpose.
16. That the supply shall not be extended/sublet to any other premises.
17. That the Bidder's industry/trade has not been declared to be obnoxious, hazardous/pollutant by any Government agency and that no court orders are being infringed by grant of applied electricity connection at the Bidder's premises.
18. That MMRCL shall be at liberty to adjust the electricity consumption charges along with any other charges against the consumption deposit paid by the Bidder , in the event of termination of the agreement prior to the expiry of the contracted period or in case of any contractual default.



19. That MMRCL shall be at liberty to transfer the dues remaining unpaid by the licensee/Bidder, after adjusting the advance consumption deposit, to other service connection(s) that may stand in the Bidder's name.
20. To allow clear and unencumbered access to the meters for the purpose of meter reading, maintenance, inspection, checking, testing, etc.
21. That MMRCL shall be entitled to disconnect the service connection under reference in the event of any default and/or non-compliance of statutory requirements and/or in consequence of a legally binding order by statutory authority (ies)/Court of Law, without prejudice to the MMRCL's rights to exercise its rights under law including that of getting its due payments as on the date of connection. The Bidder undertakes to pay penalty imposed by MMRCL on its own discretion for the damages caused to the leased property on account of any default or non-compliance of any statutory requirements.
22. That all details furnished in this Requisition form are true to the Bidder's knowledge. If any information is found incorrect at a later date, the MMRCL shall have the right to withhold /disconnect supply, as the case may be, and forfeit the advance consumption deposit.
23. The Bidder acknowledges and accepts that the relationship of the Bidder with MMRCL is not that of a consumer and a Licensee but that of a commercial arrangement where the Bidder has taken on lease/license premises of MMRCL and the Electricity connection is being provided as a part of the above arrangement.
24. The Bidder hereby acknowledges and declares that, its shall follow and abide by the latest MMRCL policy (Rules and guidelines for releasing E&M (Electrical, VAC & Fire safety)) without any objections.
25. The Bidder further agrees that this declaration given by him shall be construed as an agreement with the MMRCL to the above effect.

Date:

Place:

Signature of Bidder
(Full name)

Signed and delivered in the presence of:



Witness 1

Signature_____

Full

Name_____

Complete

Address

Phone

No._____

Witness 2

Signature_____

Full

Name_____

Complete

Address_____

Phone

No._____

List of Documents to be submitted along with Declaration

1. Installation Test Report issued by licensed electrical contractor in the prescribed format (available with the application form) and countersigned by the Bidder.
2. Proof of allotment of the space/area leased out by MMRCL in the form of the following:
 - a) Allotment/possession letters, Lease deed
 - b) General Power of Attorney together with proof of ownership of the executor.
{Applicable in case of company}



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

Annexure-H

List of Applicable Charges related to Electric Connection				
Sr. No	Description/Schedule	Unit	Charges (Rs)	Remark
1.	Rate of Security Deposit (Temporary/Permanent connection)	Per KVA	15,000/-	Refundable & interest free
2.	Electrical supervision charges	Per Energy meter	15,000/-	One time non-refundable + GST as applicable
3.	Rate of Electrical Energy	Per kVAH	Approved tariff of DISCOM	It will be varied/changed time to time as per the MERC guidelines
4.	Rate of MMRCL fixed asset operation & maintenance charges (O&M Charges)	Per kVAH	8/-	-
5.	Permanent connection: Electrical energy charges	-	Electrical energy charges + O&M charges	As per Sr. No. 3 and 4 above
6.	Temporary connection: Electrical energy charges	-	1.5 x (Electrical energy charges + O&M charges)	

Note: The above mentioned charges are subject to change without prior notice from time to time as per MMRCL Policy.



R
R.K. Singh
Sr. DGM/ITR

gamy
Dr. Vishwas Ajinkar
Addl. GM/EM-2

Amr
Kamajeet Saluja
Addl. GM/EM-3