



महाराष्ट्र विद्युत नियामक आयोग

Maharashtra Electricity Regulatory Commission

CE (STU)/696
Date: 28/9/15

MERC/TOAP/STU/20152016 / 00691

Date: 23 September, 2015

To,

Chief Engineer (STU)
Maharashtra State Electricity Transmission Co. Ltd.,
Prakashganga, 5th Floor/ A Wing,
Plot C-19, E Block, BKC,
Bandra (East) Mumbai- 400051

Subject: Procedure for Transmission Open Access as per MERC (Transmission Open Access) Regulations, 2014.

Reference No.:- MSETCL/CO/CE-STU/012141 dated 7 October, 2014.

Sir,

This has reference to the Procedure for Transmission Open Access submitted by STU vide letter dated 7 October, 2014.

I am directed to inform you that the Commission has approved said procedure. The approved procedure for Transmission Open Access has enclosed herewith this letter.

Yours faithfully,

Prafulla Varhade
(Prafulla Varhade)
Director (EE), MERC

Enclosed: Approved

- Procedure for Grant of Grid connectivity to InSTS
- Procedure for grant of Long term Open Access
- Procedure for grant of Medium term Open Access
- Procedure for Settlement of Intra-State Transmission Charges (Billing Collection & Disbursement)
- Connection Agreement for the use InSTS in Maharashtra State

*EE (RC) / 696
for circulation to
all concerned*

*SE (En P)
pl. xerox 5-6 copies
and do binding &
Keep This with you,
sh. locate SE (En C)
(Trans) copy
& one copy to me*

१३वा मजला, केंद्र क्र. १, जागतिक व्यापार केंद्र, कफ परेड, कोल्बा, मुंबई - ४०० ००५.
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28/9/15

Procedure for Grant of Grid Connectivity to InSTS

In accordance with the
Maharashtra Electricity Regulatory Commission
(Transmission Open Access) Regulations, 2014



Prepared by

**STATE TRANSMISSION UTILITY
MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**

SEPTEMBER 2015

TABLE OF CONTENTS

| | |
|--|----|
| 1. OUTLINE: | 2 |
| 2. APPLICATION FOR CONNECTIVITY:..... | 3 |
| 3. CHANGES TO APPLICATION ALREADY MADE: | 4 |
| 4. GRANT OF GRID CONNECTIVITY..... | 4 |
| 5. TIME LIMIT EXTENSION FOR GRID CONNECTIVITY | 8 |
| 6. CONSTRUCTION OF DEDICATED TRANSMISSION SYSTEM | 9 |
| 7. INTERCHANGE OF POWER WITH INSTS | 9 |
| 8. GENERAL..... | 10 |
| APPLICATIONS AND FORMATS..... | 11 |

PROCEDURE FOR GRANT OF GRID CONNECTIVITY TO INSTS

1. OUTLINE:

- 1.1. This Procedure is in accordance with the various provisions of MERC (Transmission Open Access) Regulation - 2014 for intra-State Transmission System, hereinafter referred to as "the Regulations" of "Maharashtra Electricity Regulatory Commission". All applicants shall abide by the provisions of the Regulations.
- 1.2. This Procedure shall apply to the Applications made for Grant of Connectivity to the transmission lines or associated facilities of the intra-State transmission system (InSTS), received by the State Transmission Utility (STU) on or after the date notified by the Commission of coming into force of the Regulations.
- 1.3. Application for grant of connectivity can be made by :-
 - 1.3.1. A Generating station of installed capacity 05 MW and above, including Renewable Energy Projects and captive generating plant specifying quantum of power to be drawn by the consumer.
 - 1.3.2. A bulk consumer who intends to avail supply of a minimum load of 05 MW from the Intra-State Transmission System.
- 1.4. The applicant (Generator/bulk consumer) already connected to grid (regional or state grid) or for which connectivity is already granted under the present arrangement, shall not be allowed to apply for additional connectivity for the same capacity. In case of extension of capacity of generator or bulk consumer, however, it shall be required to make application for connectivity as per the provisions of these procedures.
- 1.5. The nodal agency for grant of Connectivity, Long-term access and Medium-term open access to the inter-state transmission system shall be the STU i.e. Maharashtra State Electricity Transmission Company Ltd. (MAHATRANSCO).
- 1.6. Applicant granted "Connectivity" will be required to sign "Connection Agreement" with STU prior to the physical inter-connection. In case the connectivity is granted to the InSTS of an intra-State transmission licensee other than the STU, a tripartite agreement shall be signed between the applicant, the State Transmission Utility and such intra-State transmission licensee, in line with the provisions of the Regulations. After signing of the Agreement, Nodal Agency will provide a copy of the same to the SLDC.
- 1.7. The scheduling jurisdiction and procedure, metering, energy accounting and accounting of Unscheduled Interchange (UI) charges would be as per the relevant MERC Regulations, the Indian Electricity Grid Code and MERC State Grid Code, as amended from time to time.
- 1.8. Grid connectivity is not transferrable. It is applicable only to the applicant. In case of Wind or Solar PV Power Projects, where there are multiple investors owning different generation capacities and connected to common evacuation

infrastructure which is developed by the applicant, the Grid Connectivity will be applicable to the applicant and such investors, however, no separate grid connectivity shall be issued to the individual investor.

- 1.9. The applicant shall have to comply with the provisions of the Regulations.

2. APPLICATION FOR CONNECTIVITY:

- 2.1. The application for Grant of Connectivity to InSTS should be submitted in a sealed envelope with "Application for Grant of Connectivity" clearly marked on the envelope. The application shall be addressed to:

The Chief Engineer (STU)
Maharashtra State Electricity Transmission Company Ltd.
5th Floor, A-Wing, Prakashganga,
E-Block, Plot No. C-19,
Bandra Kurla Complex, Bandra (E),
Mumbai – 400 051.
Maharashtra.
Fax: 022-2659 1222.

- 2.2. The application for Grant of Connectivity to InSTS shall be made as per the application format for connectivity (**FORMAT: A – 1**) and shall contain details such as, proposed geographical location of the applicant, quantum of power to be interchanged that is the quantum of power to be injected in the case of a generating station including a captive generating plant and quantum of power to be drawn by the consumer, unit-wise commissioning schedule, etc.
- 2.3. The Application shall be accompanied by a non-refundable processing fee as specified in the Regulations
- For All the Conventional Generating Projects & Bulk Power Consumers the fee shall be Rs. 2.0 Lakhs (Two Lakh Rupees Only)
 - For all the Renewable Energy Generation Projects the fee shall be Rs. 1.0 Lakhs (One Lakh Rupees Only)
- 2.4. Application fees are to be paid through DD or directly credited to MAHATRANSCO Account electronically through RTGS (Real-time gross settlement) as per details given below:
- Payee: Maharashtra State Electricity Transmission Company Ltd.
 - Name of Bank : Bank of India
 - Branch : Mumbai Large Corporate Branch
 - IFSC : BKID0000160
 - A/c No. : 016020110000120

Provided that proof of payment directly credited to above MAHATRANSCO account must be attached with the application. The Demand Draft shall be in favour of Maharashtra State Electricity Transmission Company Ltd. payable at Mumbai.

-
- 2.5. All applications received during the month shall be treated to have been made concurrently.
 - 2.6. An incomplete Application, and/or an Application not found to be in conformity with these Procedures and Regulations, shall be rejected.

3. CHANGES TO APPLICATION ALREADY MADE:

- 3.1 In cases once an application has been filed and thereafter there has been any material change in the location of the applicant or change, by more than ten percent (10%) in the quantum of power to be interchanged with the Intra-State transmission system and or change in the installed capacity, the applicant shall make a fresh application, which shall be considered in accordance with these Regulations and procedures.
- 3.2 Once the Grid Connectivity is granted for any project and if the applicant needs to modify or amend the point of connection to the InSTS other than the sanctioned point of connection, the applicant shall make a fresh application, irrespective of the reason towards such modification or amendment, which shall be considered in accordance with these Regulations and procedures.
- 3.3 Grid connectivity is location specific i.e. it is applicable for a specific location where the generation plant is located. In case of any change in location of the plant, the applicant will have to make a fresh application for Grid Connectivity which shall be considered in accordance with these Regulations and procedures and the earlier application shall be considered as cancelled.
- 3.4 A generator or a captive generating plant or a consumer already connected to Intra-State Transmission System or for which connectivity is already granted under the present arrangement shall not be required to apply for connectivity for the same capacity.
- 3.5 In case of enhancement of capacity of generator including, a captive generating plant, or increase in power requirement of the consumer, including captive user, it shall be required to make fresh application for seeking connectivity as per the provisions of Regulations.
- 3.6 After issuance of Intimation Letter or Grid Connectivity, if the 1st applicant company/firm etc. is fully acquired by any other company/firm etc, then other company/firm etc. shall be the 2nd and new applicant who shall be responsible to seek permission from STU towards utilization of the same Grid Connectivity. In such case, the 2nd applicant will have to submit to STU an application form for Grid Connectivity mentioned in Point No. 2 along with the documents in support of such acquisition of assets from the competent authorities.

4. GRANT OF GRID CONNECTIVITY

-
- 4.1 On receipt of the application, the STU shall ask the applicant and the concerned transmission licensee in whose license area the project is being proposed to carryout joint survey and submit a Technical Feasibility Report towards possible schemes required for interconnection of the project with InSTS.
 - 4.2 After receipt of the technical feasibility report, the STU shall undertake a Load Flow Study and finalize the tentative evacuation arrangement which is to be constructed by the applicant and point of connection to InSTS. After finalization of the evacuation arrangement and point of connection, STU shall issue an Intimation Letter to the applicant informing point of connection and technical feasibility for project interconnection to InSTS, which will be valid for ONE (1) YEAR from issuance date. The Intimation Letter format shall be as per **FORMAT: GC – 1**.
 - 4.3 The intimation letter shall be issued to the applicant within 45 days from the date of application of Grid Connectivity. The timeline for issuance of Intimation Letter and/or Grid Connectivity for various Renewable Energy Projects shall be as per the forthcoming Renewable Energy Policy of Government of Maharashtra. If the applicant has made delay towards arranging joint site visit with STU representatives (for technical feasibility report), the days lapsed for such delay shall not be considered within the target days of 45 days for issuance of Intimation Letter and/or Grid Connectivity.
 - 4.4 In order to assess preparedness of applicant making application for the connectivity to the ISTS, an applicant is required to submit along with its application, documents in support of having initiated specific actions for project preparatory activities in respect of matters mentioned in (i) to (v) below.

A. Site identification and land acquisition:

The applicant shall inform the total land required for the generation project and submit the copies of Index-II for land acquired and/or Land Lease Deed executed for 20 years or above.

In case of land to be acquired under the Land Acquisition Act 1894, the applicant shall submit copy of notification issued for such land under Section 4 of the Land Acquisition Act 1894, within 06 (SIX) months from the date of Intimation Letter. The applicant may also furnish documentary evidence in the form of certificate by concerned and competent revenue / registration authority for the acquisition / ownership / vesting of the land.

B. Environmental clearance for the power station:

The applicant shall have to submit the copy of the environmental clearance, received from the concerned administrative authority. In case, the clearance is not received, the applicant may submit the copy of latest correspondence which should be at least at the stage of final approval stage.

C. Forest Clearance (if applicable) for the land for the power station:

The applicant shall have to submit the copy of the forest clearance received from the concerned administrative authority for the land required for erection of EHV Sub-Station. In case forest land diversion is required for development of Wind or Solar Power Projects (for installation of Wind Turbine Generators

or Solar PV Panels), the applicant may submit the copies of updated correspondence with competent authorities.

D. Fuel Arrangements:

Details on fuel arrangements shall have to be informed for the quantity of fuel required to generate power from the power station for the total installed capacity intended for connectivity.

E. Water linkage:

The applicant shall inform the status of approval from the concerned state irrigation department or any other relevant authority for the quantity of water required for the power station.

These evidences shall be supported by a sworn in affidavit by the Applicant as per the format given at **FORMAT: AFFIDAVIT – 1**.

- 4.5 Due to any reasons, if the grid connectivity for Power Project is not feasible, before rejecting the application for grid connectivity, such reasons shall be intimated to the applicant by STU. However, if the applicant fails to submit the required compliance and comments, if not found appropriate, the application shall be rejected. In case of any disputes, the same shall be represented before Hon. Commission.
- 4.6 After receipt of the applicable documents listed above in Point No. 4.3 (A) to (E), the Grid Connectivity (**FORMAT: GC – 2**) informing detailed Scope of works shall be issued to the applicant. The Validity of the Grid Connectivity Letter shall be as per the Table – 1. It is mandatory to the applicants to complete all the works related to commissioning of Evacuation Infrastructure within the time limits as specified in the Table – 1. In case the applicant fails to complete the evacuation arrangement within the specified time limits, they shall seek time limit extension for the Grid Connectivity. The procedure for time limit extension shall be as per Point No. 5 mentioned below.
- 4.7 In the Grid Connectivity Letter, the applicant shall be intimated to execute various agreements such as Connection Agreement (**ANNEXURE – 2**), Site Responsibility Schedule (**ANNEXURE – 3**) etc. with STU prior to the physical inter-connection to the InSTS. In case the connectivity is granted to the InSTS of an Intra-State transmission licensee other than the STU, a tripartite agreement shall be signed between the applicant, the State Transmission Utility and such Intra-State transmission licensee, in line with the provisions of the Regulations. After signing of the Agreement, Nodal Agency will provide a copy of the same to concerned SLDC. The applicant shall submit the above mentioned documents to STU, minimum two (02) months before synchronizing the project.

Table - 1

| Sr No. | Capacity of Project | Voltage level for Inter-connection | Period for work completion * | Remarks |
|--------|---------------------|------------------------------------|------------------------------|--------------------|
| 1 | Up to 50 MW | At 33 kV level of EHV | 12 months | For Wind/Solar and |

| | | Sub-Station | | Small Hydro Projects |
|---|-----------------------|-----------------------------------|-----------|---|
| 2 | Up to 50 MW | At EHV level i.e. 100 kV or above | 18 months | For all Renewable Energy Projects |
| 3 | From 51 MW to 100 MW | At EHV level i.e. 100 kV or above | 18 months | For all type of power projects |
| 4 | From 101 MW to 300 MW | At 220 kV level or above | 24 months | For all type of power projects |
| 5 | From 301 MW and above | At 400 kV level or above | 24 months | For all type of power projects |
| 6 | | | 30 months | For projects up to capacity with single unit up to 500 MW |
| 7 | | | 36 months | For bulk power projects with multiple units above 500 MW. |

Note: (*) Time limit shall be from the date of issue of Grid Connectivity Letter by STU.

- 4.8 Before synchronizing the power project, the applicant shall submit the following documents to STU atleast 10 days before synchronization of the project. After scrutinizing the documents, STU shall issue Final Grid Connectivity to the applicant in **FORMAT: GC – 3**. After receipt of the Final Grid Connectivity, the applicant shall seek permission for Synchronization from concerned SLDC.

The documents to be submitted for availing Final Grid Connectivity are:

- Application for Connection (as per **FORMAT: ANNEXURE – 1**)
- Connection Agreement executed with STU and Applicant (as per **FORMAT: ANNEXURE-2**)
- Site Responsibility Schedule executed with STU and Applicant (as per **FORMAT: ANNEXURE – 3**)
- Copy of SLD, Layout of the Switchyard of Power Station approved by STU.
- Copy of metering arrangement scheme and synchronization scheme approved by STU. (Not required for Wind Power Projects)
- Work Completion Report of dedicated transmission system from STU (as per **FORMAT: ANNEXURE – 4**).
- Certificate from concerned SLDC towards visibility of Generation for Real Time monitoring as per SLDC's requirements.
- Agreement or consent from concerned Distribution Utility towards drawal of power required for Start-up of generation and Auxiliary consumption. In case, the applicant is not intended to draw power from grid and arranging power supply at its own at the power station, an affidavit in this regards (**FORMAT: AFFIDAVIT – 3**) shall be furnished.

5. TIME LIMIT EXTENSION FOR GRID CONNECTIVITY

- 5.1 If the Evacuation Infrastructure is not completed within the specified time limit, the application shall have to apply for time extension to STU before 30 (Thirty) days from date of validity date. The application shall be in the **FORMAT: A – 4**.
- 5.2 Only two time extensions of SIX months each shall be granted for any power project. The non-refundable processing fee shall be of Rs. 1.0/2.0 Lakhs per project for the 1st /2nd time extensions. The procedure for application and payment of processing fee shall be as per Point No. 2, above.
- 5.3 **All the fees and penalties received towards the grant of time extension shall be considered as non-tariff income of the nodal agency, i.e. STU (MSETCL).**
- 5.4 To assess the progress of the project, the applicant shall have to submit the following documents:
- a. **Drawing Approvals:**
Applicant shall submit the copies of all the approvals received from the STU towards SLD, Layout, Tower Schedule, EHV line Profile etc.
 - b. **Supply/Work Orders:**
Applicant shall have to submit the copies of Supply orders towards supply of various Sub-Station and EHV line material and the copies of Work Orders placed towards erection of EHV Sub-Station and lines.
 - c. **Work Progress Report:**
A Work Progress Report from the STU field officers certifying the current physical progress towards construction of the evacuation infrastructure shall have to be submitted by the applicant.
 - d. **LOI towards supply of Plant Machineries:**
Applicant shall submit the copies of LOI placed towards supply of Generator, Turbine and Generating Transformer required for their Power Project. In case of Wind/Solar Power Projects, the applicant shall submit the copies of LOI placed towards supply of Wind Turbine Generators (WTGs')/Solar PV Modules & Invertors.
 - e. Document or agreement imparting the reason for delay in commissioning schedule. This document will be considered only if found genuine by the nodal agency.
 - f. Any other document supporting progress of the project. This Document will be considered only if found genuine by the nodal agency.
 - g. Applicant shall submit the action plan and time schedule for completion of the project.
- 5.5 For the progressive and/or proposed projects with grid connectivity prior to this procedure, if time extension sought for more than two times, the applicant shall have to pay a processing fee of Rs.1.0 Lakh per no. of extension along with penalty

towards non-completion of the project within time limit of similar amount. All such time extensions if found genuine shall be considered only for SIX months from the validity date. However, it is mandatory to complete the project within this extended time frame.

For example: if the applicant seeks 3rd time extension, then the processing fee would be Rs.3.0 Lakhs and penalty of Rs.3.0 Lakhs. If the progress is genuine, then the application shall be considered and time extension for SIX months will be granted.

- 5.6 After scrutinizing the documents, the application of time extension shall be processed and if found genuine, the time extension shall be issued in **FORMAT: E – 1**. Applicant shall complete all the works and commission the project within this extended time frame.
- 5.7 In spite of availing two extensions, if the project is not completed, the grid connectivity for the project shall be considered as cancelled. In such case, if required, the applicant will have to apply afresh for Grid Connectivity which shall be processed as per the provisions of the Regulations and the applicant shall not any precedence over other interested applicants seeking grid connectivity at same location.

6. CONSTRUCTION OF DEDICATED TRANSMISSION SYSTEM

- 6.1 The dedicated transmission system required for interconnection of the power station with the InSTS shall be constructed by the applicant which shall be owned, operated and maintained by the applicant. No refund towards development of such infrastructure shall be made by the STU. However, in case of RE Power Projects, which are developed under the RE Policy of Govt. of Maharashtra, the refund of infrastructure shall be considered as per the RE Policy of Govt. of Maharashtra.
- 6.2 All the dedicated transmission system shall be developed as per the Technical Standards of STU and under the supervision of STU.
- 6.3 The time limit for completion of the dedicated transmission system shall be as per Point No. 5.

7. INTERCHANGE OF POWER WITH InSTS

- 7.1 The grant of connectivity shall not entitle an applicant to interchange any power with the grid unless it obtains long-term access, medium-term open access or short-term open access.
- 7.2 A generating station, including a captive generating plant which has been granted connectivity to the Intra-State Transmission Grid shall be allowed to undertake

testing including full load test by injecting its infirm power into the grid before being put into commercial operation, even before availing any type of Open Access, after obtaining permission of the concerned State Load Dispatch Centre, which shall keep grid security in view while granting such permission. The charges for testing and Tariff of this infirm power from a generating station or a unit thereof, other than those based on non-conventional energy sources, the Tariff of which is determined by the Commission, will be governed by the MERC (Multi Year Tariff) Regulations, 2011 as amended from time to time. The power injected into the grid from other generating stations as a result of such test shall be charged either at the rates for imbalance determined by the Commission under the Intra-State ABT mechanism or at average variable charge of long term power purchase as approved by the Commission in the prevailing Tariff Order of the Distribution Licensee, to which the generator intends to sell, whichever is lower.

- 7.3 Before injecting infirm power, the generating station including captive generating plant, shall have an agreement with a distribution Licensee to supply infirm power. In case the generator does not have an agreement for sale of power with any Licensee then the charges for infirm power injected into the grid shall be reduced to zero and this infirm power shall be credited to the Distribution Licensees under the provisions of Intra-State ABT mechanism operating in the state.
- 7.4 Any unit of a generating station or a generating plant, including a captive generating plant which has been granted connectivity to the grid shall be allowed to inject infirm power into the Grid during testing including full load test before its COD for a period not exceeding six months from the date of first synchronization after obtaining prior permission of the State Load Dispatch Centre and the Transmission Licensee.

8. GENERAL

- 8.1 All costs/expenses/charges associated with the application, including demand draft, Affidavits etc. shall be borne by the applicant.
- 8.2 The applicant shall abide by the provisions of the Electricity Act, 2003, the MERC Regulations and Indian Electricity Grid Code and MERC (State Grid Code) Regulation - 2006, as amended from time to time.
- 8.3 This procedure aims at easy and pragmatic disposal of applications made for Connectivity to InSTS. However, some teething problems may still be experienced. The various implications would be known only after practical experience is gained by way of implementing these procedures. In order to resolve the same, this procedure shall be reviewed or revised by the Nodal agency with prior approval of MERC.
- 8.4 All complaints regarding unfair practices, delays, discrimination, lack of information, supply of wrong information or any other matter related to grant of connectivity to ISTS shall be directed to MERC for redressal.

APPLICATIONS AND FORMATS

APPLICATION FOR GRANT OF GRID CONNECTIVITY TO InSTS

| | | |
|----|--|-------------------------------|
| 1 | Name of the applicant applying for Grid Connectivity on intra-state transmission system | |
| 2 | Address for correspondence | |
| 3 | Details of Authorized Contact Person | |
| | Prime Contact Person | |
| | Designation | |
| | Phone Number | |
| | Mobile Number | |
| | Fax Number | |
| | E-Mail ID | |
| | Alternate Contact Person | |
| | Designation | |
| | Phone Number | |
| | Mobile Number | |
| | Fax Number | |
| | E-Mail ID | |
| 4 | Grid Connectivity required for Generation / Bulk Power Consumer | |
| 5 | Type of Generation (Conventional / Non-Conventional) | |
| 7 | Type of Load (Industrial / Commercial etc.) | |
| 9 | Total Project Capacity (MW) | |
| 10 | Details of power transfer requirement (Injection for Generation/Drawal for Load) | |
| | Quantum of power to be injected / drawn(MW) | |
| 11 | Name(s) of Transmission Licensee(s) whose transmission network will be used for Grid Connectivity on intra-state transmission system | |
| 12 | Details of injection point in intra-state transmission System. | In case of Generation Project |
| | Name of injecting utility/party/generating station | |
| | Generation Voltage/Injection Voltage Level | |

| | | |
|----|--|---------------------------------|
| | Point of injection (name of EHV Station of Transmission Licensee) | |
| | If power is injected at other than Transmission Licensee's S/S, name and owner of S/S for O&M. | |
| | Whether power is proposed to be injected at MSETCL's existing or proposed network. | Existing / Proposed |
| | Single line diagram at Injecting Point | |
| 13 | Details of point of drawl from intra-state transmission system. | In case of Bulk Power Consumers |
| | Name of utility/party/drawl station | |
| | Drawal Point Voltage Level | |
| | Point of drawal (name of EHV Station of Transmission Licensee) | |
| | Whether power is proposed to be drawn from MSETCL's existing or proposed network. | Existing / Proposed |
| | Single line diagram at Drawl Point | |
| 14 | Tentative details of PPAs/Contracts and MOU. | Intra-State / Inter-State |
| | For Power to be injected | |
| | Agreement with traders if any in above transaction | |
| 15 | Details of the Generation Project: | |
| | Name of the promoter | |
| | Total Project Capacity (MW) | |
| | Location of the plant (Village, Taluka & District) | |
| | Latitude | |
| | Longitude | |
| | No. of Units & Capacity of each unit (MW) | |
| | Unit wise Commissioning Schedule (Unit-1, Unit-2, etc) | |
| | Type of fuel | |
| | Specify the step-up generation Voltage 400kV or 220kV or any other voltage | |
| | Is it a captive Power Plant (Yes/No) | |
| | If Yes, details of documentary evidence enclosed. | |

| | | |
|----|--|----------------------|
| 16 | Details of the Bulk Power Consumer Project: | |
| | Name of the promoter | |
| | Total Project Capacity (MW) | |
| | Location of the plant (Village, Taluka & District) | |
| | Specify the drawal Voltage level. | |
| | Reactive Power requirement of the Project (MVar) | |
| 17 | Status of Project: | |
| | NOC from MEDA obtained in case of Biomass / Bagasse/Wind/Solar/ Small Hydro. | |
| | Total Land Required/Land in possession | |
| | Status of Fuel linkages (For Thermal & Gas Projects) along with documentary evidence. | |
| | Status of Water Supply (For Thermal & Hydro Projects) along with documentary evidence. | |
| | Status of Environmental Clearance along with documentary evidence. | |
| | Whether tentative route of evacuation lines passes through forest, bird sanctuaries etc. | |
| 18 | Processing Fee Transaction Details | |
| | Bank Draft for Application Processing Fee | |
| | Name of Bank | |
| | Demand Draft No. & Date | |
| | Amount in Rs. | |
| | Payable at Bank | |
| | If payment made through NEFT (enclose copy of receipt) | Receipt No: Date: |
| | | |

Note: Filling up of all the columns in the above form is mandatory and for any irrelevant column please specify as "Not Applicable".

It is hereby certified that the applicant unequivocally confirms to the terms and conditions and has fully understood the guidelines issued by STU for Grid Connectivity on intra-state transmission system. Further I undertake that:

- 1) I have not obtained or applied for any other grid connectivity for this plant from any other transmission licensee.

-
- 2) This connectivity stands cancelled, in case I opt for another grid connectivity from any other transmission licensee.
 - 3) This application and the grid connectivity obtained shall be governed by the MERC (Transmission Open Access) Regulation – 2014.

Authorized Signatory

Grid Connectivity

Applicant

Name:

Designation:

Seal:

Place:

Date:

On Non Judicial Stamp paper of Rs.100/-

AFFIDAVIT

In the matter of filing application to State Transmission Utility (Maharashtra State Electricity Transmission Company Limited), for grant of Grid Connectivity under MERC (Transmission Open Access) Regulations, 2014.

I.....(Name).....S/o Shri(Father"s name)... working as (Post)..... in(name of the Company)....., having its registered office at (address of the company)....., do solemnly affirm and say as follows:

- 1) I am the (Post)..... of(Name of the Company)....., the representative in the above matter and am duly authorized to file the above application and to make this affidavit.
- 2) I submit that M/s.....(name of the company)..... is a registered company(Public Ltd/Pvt. Ltd.)..... Registered under Companies Act. Under the Article of Association of the Company and in accordance with the provisions of Electricity Act, 2003/relevant Regulation(s) of MERC, the company can file the enclosed application.
- 3) I submit that all the details given in enclosed Letter No....., dated..... for grant of Grid Connectivity along with necessary documents are true and correct and nothing material has been concealed thereof.

Place:

(Signature)

Date:

Name of the Applicant

(To be duly attested by Notary)

INTIMATION LETTER

To,
M/s. (Name of Applicant).....
Address:
.....

Kind Attn: Shri.(Name of Contact Person).....

Sub: Application for Grid Connectivity to MSETCL's Grid for MW based Power
Project at Site:....., Tal....., Dist..... proposed by
M/s.

Ref : 1. M/s. Application No., dtd., for Grid Connectivity.
2. Technical Feasibility Report No....., dtd., received
from.....

Dear Sir,

This has with reference to your application cited u/r. 1, for Grid Connectivity for your
proposed MW based Power Project at Site:, Tal., Dist.
.....

Vide letter u/r. 2, the (Name of concerned transmission licensee)..... has submitted
technical feasibility report for the said project.

Accordingly, this office has processed your application for grid connectivity cited u/r. 1
above, and the Grid Connectivity for your MW based Power Project at Site:
..... is technically feasible at MSETCL's/..... kV Sub-Station (*in case of LILO,*
Specify name of EHV line) at kV level.

You are requested to submit the following documents to this office **within ONE YEAR
from the date of this letter.**

Documents to be submitted within ONE YEAR for Grid Connectivity Permission:

- a. Copies of Index – II towards Land Acquisition for the project.
- b. Allotment of Fuel linkages.
- c. Allotment of Water Supply.
- d. Environmental Clearance.
- e. Forest Clearance.
- f. Agreement/MOU with Turbine/Boiler/WTG/Solar PV Modules/Invertor
Manufacturers.
- g. Agreements/MOU with Investors.

After receipt of above documents, this office will issue Grid Connectivity for the said
Power Project. The Grid Connectivity Letter shall include the detailed Scope of works for
connecting to InSTS, various Agreements to be executed by the applicant and terms &
Conditions.

The intimation letter shall be governed by the Indian Electricity Act – 2003, Indian Electricity Grid Code, MERC (Transmission Open Access) Regulation – 2014 and MERC (State Grid Code) Regulation - 2006 and any time to time amendments to the same.

This letter will be valid for ONE year from the date of issue and it is mandatory on your part to submit the quarterly status report of your project. If you fail to submit the above mentioned documents on or before validity date, your application for grid connectivity cited u/r. 1 above, and this Intimation Letter shall stand cancelled. No further correspondence will be made in this regards by this office. In such case, you will have to apply afresh to this office and you will not have any precedence over the other interested Power Project Developers seeking Grid Connectivity at the same location. This may please be noted.

Thanking you.

Yours Faithfully,

**Chief Engineer
State Transmission Utility**

GRID CONNECTIVITY

M/s. (Name of Applicant).....

Address:

Kind Attn: Shri.(Name of Contact Person).....

Sub: Grid Connectivity for MW based Power Project proposed by M/s.at

Site:....., Tal....., Dist..... to InSTS.

Ref : 1. M/s. Application No., dtd., for Grid Connectivity.

2. Technical Feasibility Report No....., dtd., received from.....

3. This Office's Intimation Letter No., dtd....., towards Grid Connectivity.

4. M/s. Letter No. dtd....., submitting documents and Affidavit.

Dear Sir,

With reference to above, vide letter u/r. 1, you have applied for Grid Connectivity to your MWbased Power Project proposed at Site:....., Tal:, Dist: The(Name of concerned Transmission Licensee)....., vide letter u/r. 2, has submitted the technical feasibility report for the said project. Based on the same, this office, vide letter u/r. 3, has intimated you to submit the documents required to assess the progress of your project.

Now, vide letter u/r. 4, you have submitted the following documents & requested to issue Grid Connectivity with scope of works for your MW Power Project.

List of Documents submitted by you along with application are as follows...

- a.
- b.
- c.
- d.

Hence, the Grid Connectivity for your MW based Power Project at Site:, Taluka:, District: is hereby granted at MSETCL's/..... kV ...(Name of Sub-Station or EHV line to be made LILO)..... at kV level, subject to compliance of Point No. 1 to 7, along with completion of the scope of works mentioned at Sr. No. 5.

The Grid Connectivity shall be governed by the:

- i. Indian Electricity Act. 2003.
- ii. Indian Electricity Grid Code December 2005
- iii. MERC (Transmission Open Access) Regulation – 2014.
- iv. MERC (State Grid Code) Regulations 2006 - Part B, Part C, Part D and Part F.
- v. Amendments in regulations if any, issued by the appropriate commission at any time.

Before synchronization, you will have to submit the following documents so as to enable this office to issue Final Grid Connectivity for the said project.

Documents to be submitted before synchronization of the project:

1. Application for connection to Intra-State Transmission System (as per Annexure – 2 of connection application, Available on Website : www.maharashtrastu.com)
2. Work Completion Report (alongwith ABT Meter & SCADA installation), as per the Scope of Works mentioned at Sr. No. 5.
3. Connection Agreement to be executed between you and Concerned Transmission Licensee – (as per Clause 14 of Grid Code).
4. Approved Copy of Drawings for Synchronization Scheme.
5. For connecting the said MW Power Project at Site: you will have to complete following works at your cost (as per Section 10 of E A 2003)...
 - a.
 - b.
 - c. Suitable ABT Metering Arrangements capable of measuring Four Quadrant Reactive Energy, approved by the Chief Engineer (P & D), Prakashganga, MSETCL, Mumbai.
 - d. Visibility of generation to SLDC for real time monitoring through SCADA/RTU-DC etc. as per SLDC's requirement
6. Certificate from the SLDC for completion of visibility of generation.
7. Appropriate agreements with the concerned Distribution licensee in the event of drawl of power by you from the concerned Distribution licensee through EHV network.

The Grid Connectivity for the said project shall be subject to the following terms and conditions:

- a. This Grid Connectivity is only for establishment of connection with the grid and for test synchronization for the generation. The evacuation shall be permitted only after availing Open Access by you and/or your Investors.
- b. Power evacuation depends on prevailing system conditions and for non-evacuation of power by whatsoever may be the reason, MSETCL shall not be responsible.
- c. In case of any contingencies, you and/or your investors will have to back down the generation as per system conditions and MSETCL will not be responsible for the said generation loss.
- d. This letter will be valid for ONE year from the date of issue. On receipt of documents specified above alongwith the completion of the Scope of Works mentioned at Sr. No. 5, on or before validity date, the Chief Engineer (STU) shall issue Final Permission for Grid Connectivity.
- e. In case, you are not able to complete the Scope of Works within the validity date, you will have to apply to this office, before 30 (Thirty) Days from the validity date, along with the reasons & documentary proofs supporting the progress of

your said solar power project. Otherwise, it shall be treated that you are not interested in execution of the project and the Grid Connectivity shall be treated as cancelled. In such case, no further correspondence shall be made in this regards and you will have apply afresh to this office for Grid Connectivity and you will not have any precedence over other interested developers seeking Grid Connectivity.

- f. It is mandatory on your part to submit the quarterly status report of your project.

Thanking you.

Yours Faithfully,

Chief Engineer
State Transmission Utility

FINAL GRID CONNECTIVITY

M/s. (Name of Applicant).....

Address:

.....

Kind Attn: Shri.(Name of Contact Person).....

Sub: Final Grid Connectivity for MW based Power Project proposed by
M/s.at Site:....., Tal....., Dist..... to InSTS.

Ref : 1. M/s. Application No., dtd., for Grid Connectivity.

2. Technical Feasibility Report No....., dtd., received
from.....

3. This Office's Intimation Letter No., dtd....., towards Grid Connectivity.

4. M/s. Letter No. dtd....., submitting documents and Affidavit.

5. This Office's Grid Connectivity Letter No., dtd.....

6. M/s. Letter No. dtd....., requesting Final Grid Connectivity.

Dear Sir,

With reference to above, vide letter u/r. 1, you have applied for Grid Connectivity to
your MWbased Power Project proposed at Site:....., Tal:, Dist:
..... Considering various letters cited u/r. 2 to 4, this Office, vide letter u/r. 5, has
issued Grid Connectivity for your MW based Power Project proposed at
Site:....., Taluka:, District:

The said project is proposed to be connected to ...(Name of Transmission Licensee's Sub-
Station or Line)... atkV level.

Now, vide letter u/r. 6, you have submitted the documents listed below and requested
to grant Final Grid Connectivity for the said project. The documents submitted by you
are:

- a. Application for connection (Annexure – 1).
- b. Connection Agreement.
- c. Site Responsibility Schedule along with Equipment details.
- d. Work Completion Report along with ABT meters and SCADA.
- e. Approved copy of SLD and Layout.
- f. Approved Synchronization Scheme.
- g. Certificate for SLDC for commissioning of works towards visibility of generation.
- h. Agreement with concerned Distribution Licensee / Affidavit towards non-drawal
of power from Grid.

Hence, Grid Connectivity for your MW based Power Project proposed at Site:
....., Taluka:, District: is hereby granted at kV level of(Name of
Sub-Station or Line of Transmission Licensee)....

Further, you are requested to submit one copy of the above mentioned documents to the Chief Engineer, State Load Dispatch Centre, Thane – Belapur Road, Airoli, Post – Airoli, Navi Mumbai – 400 708, for synchronizing permission to the said project.

Thanking you.

Yours Faithfully,

**Chief Engineer
State Transmission Utility**

APPLICATION FORM FOR GRANT OF TIME EXTENSION FOR GRID CONNECTIVITY

| | | |
|----|--|--|
| 1 | Name of the applicant | |
| 2 | Address for correspondence | |
| 3 | Details of Wind Power Project: | |
| | Name of the Site, Taluka & District of the Project | |
| | Capacity of the Project (MW) | |
| | STU's Intimation Letter Number and Date | |
| | Validity Date (as per STU's Intimation Letter / Time Extension Letter) | |
| 4 | Progress as on Date (please specify date) | |
| 5 | Detailed Progress of the Project | (Please tick in the appropriate box) |
| a. | Private Land Acquired (in Hectres, Attach Index-II) | Acquired <input type="checkbox"/> In Progress <input type="checkbox"/> Enclosed <input type="checkbox"/> |
| b. | Sub-Station land acquisition (attach copies of Index-II, etc.) | Acquired <input type="checkbox"/> In Progress <input type="checkbox"/> Enclosed <input type="checkbox"/> |
| c. | Forest Clearance for land diversion (attach copies) | Received <input type="checkbox"/> In Approval Stage <input type="checkbox"/> Enclosed <input type="checkbox"/> |
| | If in approval stage, please specify: | |
| | Date of submission of application to Forest Authorities | |
| | Present Status of application | |
| | Expected date of approval from Forest Authorities | |
| d. | NOC from Geology and Mining Department (attach copies) | Received <input type="checkbox"/> In Approval Stage <input type="checkbox"/> Enclosed <input type="checkbox"/> |
| | If in approval stage, please specify: | |
| | Date of submission of application to Geology & Mining Authorities | |
| | Present Status of application | |
| | Expected date of approval from Geology & Mining Authorities | |
| e. | Line Route, Tower Schedule approval from MSETCL (attach copies) | Approved <input type="checkbox"/> In Approval Stage <input type="checkbox"/> Not submitted to MSETCL <input type="checkbox"/> |
| | If not submitted, please specify the reason | |

| | | |
|----|--|--|
| f. | LOI for supply of S/s. equipments (attach copies) If not placed, please specify the expected date for placing LOI | Placed <input type="checkbox"/> Yet to be placed <input type="checkbox"/> Enclosed <input type="checkbox"/> |
| g. | LOI for supply for transmission line material (attach copies) If not placed, please specify the expected date for placing LOI | Placed <input type="checkbox"/> Yet to be placed <input type="checkbox"/> Enclosed <input type="checkbox"/> |
| h. | Execution of MOU/Agreement with Turbine/Boiler/WTG/Solar PV Modules manufacturers (attach copies) | Executed with M/s. _____ on dtd. ____ / ____ / ____. |
| i. | Execution of MOU/Agreement with Investor (attach copies) | Executed with M/s. _____ on dtd. ____ / ____ / ____. |
| j. | Progress Report from MSETCL's Field Office (Attach copy) | |
| 6 | Proposed Date of Completion | |
| 7 | No. of Time Extensions received from STU | ONE <input type="checkbox"/> TWO <input type="checkbox"/> If more than TWO, please specify: _____ |
| 8 | Reason for seeking time extension (Please specify the reason for delay in works) | Demand Draft <input type="checkbox"/> NEFT <input type="checkbox"/> |
| 9 | Processing Fee Payment Details | |
| | Processing Fee Amount | Rs. _____ |
| | Demand Draft No. and Date | |
| | Name of Bank & Branch | |
| | If payment is made through NEFT, please attach Receipt copy. | Receipt No.: _____ Date: _____ |

Note: Filling up of all the columns in the above form are mandatory and for any irrelevant column please specify as "Not Applicable".

It is hereby certified that the applicant unequivocally confirms to the terms and conditions and has fully understood the guidelines issued by STU for Time Extension of Grid Connectivity on intra-state transmission system. I have verified the above mentioned information & documents attached and are in order. Further, if time extension is granted, I undertake that:

- 1) I shall complete all the works within extended time frame.
- 2) I shall not request for any further time extension for this Wind Power Project.
- 3) I shall submit the quarterly Progress Report to the Chief Engineer (STU).

Encl: Documents as above.

Place:
Date:

Authorized Signatory

Name :
Designation :
Seal :

**Maharashtra State Electricity Transmission Company Limited
(State Transmission Utility)**

Agreement for Connection to the intra state transmission system
(Applicable for one Party / Multi Party Developers requiring dedicated transmission system
and system strengthening)

CONNECTION AGREEMENT

For

THE USE OF

Intra-State Transmission System (InSTS)

In

Maharashtra State

Between

*(Generation Company including Captive Generation / Distribution Licensee /
Power Procurer /Consumer and Others Permitted by State Commission)
(Transmission System User)*

And

(Transmission Licensee)

CONNECTION AGREEMENT

This Connection Agreement (the "Agreement") is made on the ____ day of September, 2014 by and between:

Company - A, is a "(Generation Company including Captive Generation / Distribution Licensee /Power Procurer/ Consumer/ Others Permitted by State Commission)" a company incorporated under the companies Act, 1956 having its registered Indian Railway and

Company - B, is a "(Generation Company including Captive Generation / Distribution Licensee /Power Procurer/ Consumer/ Others Permitted by State Commission)" a company incorporated under the companies Act, 1956 having its registered _____ and

|

|

Company - Z, is a "(Generation Company including Captive Generation / Distribution Licensee /Power Procurer/ Consumer/ Others Permitted by State Commission)" a company incorporated under the companies Act, 1956 having its registered _____ and

(hereinafter collectively referred to as Long Term Transmission System Customers/ Users and individually referred to as *Company-A, B,.....Z respectively*) which expression shall unless repugnant to the context or meaning thereof include its successors and assignees as party of the second, third, fourth, _____ and _____ respectively.

And

Maharashtra State Transmission Electricity Transmission Company Limited (MSETCL) *Transmission Licensee*, a company incorporated under the Companies Act, 1956, having its registered office at 'Prakashganga', Plot No. C-19, E-Block, Bandra Kurla Complex, Bandra (East), Mumbai – 400 051 (hereinafter called "**MSETCL**" which expression shall unless repugnant to the context or meaning thereof include its successors and assignees);

WHEREAS

- 47-20-153
- A) The Applicant has applied to the STU for connection of the [*mention generating station including a captive generating plant or Bulk consumer as appropriate*] facility to the

STU's Transmission System and use of the STU's Transmission System to transmit electricity to and or from the Facility through the Intra -State Transmission System.

- 2mwise
5th dec
- B) The STU has agreed to the connection of the [mention generating station including a captive generating plant or Bulk consumer as appropriate] Facility to the STU's Transmission and Communication System (via the applicant's Site-Related Connection Equipment) at the Connection Point (^{Railways} *Mention details of the connection point, the name of sub-station, name of line which is to be made LILO, etc.....*) using the Transmission and Communication System of the STU or Intra-state transmission licensee other than the STU, as the case may be, to transmit electricity as well as real time data to and or from the Facility through the STU's Transmission and Communication System.
- C) The Parties shall enter into this connection agreement to record the terms and conditions upon which the Parties will carry out their respective Connection Works, in addition to the estimated cost required to be carried out by the STU for works related to the interconnection, in accordance with the Connection Agreement. In the case of a generating plant seeking connection to the inter-state transmission system not owned by the STU, a tripartite Connection Agreement would be signed between the STU, the Intra-State transmission licensee and the applicant, since the planning of the Intra-State transmission system, insulation coordination, system studies, etc. are the responsibility of the STU. The responsibilities of the three parties would be defined accordingly in the tripartite Agreement.
- D) The parties shall separately take up modalities for implementation of the works on mutually agreed terms and conditions. The scope of works, time schedule for completion of works, including the timelines for the various milestones to be reached for completion of works (PERT chart), shall form an appendix to this agreement, and shall form the basis for evaluating if the works by the parties is being executed in time. Penalties for non-completion of works in time by one party resulting in financial losses to the other party may be appropriately priced, as per mutual agreement, for indemnification of each other against losses incurred in this regard, and form a part of this Agreement. Similarly, for the regular O&M of the connection equipments owned by the applicants and located in the STU's premises/switchyard, the parties shall separately take up the O&M agreement on mutually agreed terms and conditions.
- E) Further, a signed copy of the agreement along with all the Annexures, and amendments when ever made, shall be submitted to SLDC & STU.

MSETCL is a Transmission Licensee under Section 14 of the Electricity Act, 2003 and owns, operates & maintains Intra- State Transmission System in the State of Maharashtra.

Maharashtra Electricity Regulatory Commission (hereinafter referred to as "MERC") has specified the State Grid Code which inter-alia lays-down the minimum technical and design criteria to be complied with by MSETCL and ^{Railways} connected to or seeking connection to the Intra-State Transmission System.

As per Connection Conditions specified in the State Grid Code, this Agreement is hereby entered into between MSETCL and ^{Railways} for seeking connection of with MSETCL's . (One by one details of Companies from A-Z)

MSETCL and ^{Railways} are hereinafter individually referred to as "party" and collectively referred to as "parties".

Now, therefore, in consideration of the premises and mutual agreements, covenants and conditions set forth herein, it is hereby agreed by and between the parties as follows:-

Definitions and Interpretation

In this agreement unless the context otherwise requires the definitions of terms used shall be as follows:

1. 'Act' means the Electricity Act, 2003(No 36 of 2003) including amendments thereto;
2. 'Apparatus' means all equipment in which electrical conductors are used, supported or of which they form a part;
3. 'Appropriate Transmission Utility' means the Central Transmission Utility or State Transmission Utility as the case may be.
4. 'Automatic Voltage Regulator (AVR)' means a continuously acting automatic excitation control system to regulate a generating unit Voltage measured at the generator terminals
5. 'British Standards' (BS) means those standards and specifications approved by the British Standards Institution.
6. 'Bulk Consumer ' means a consumer who avails supply at Extra High voltage exceeding 33 kV;
7. 'CEA or Authority' means the Central Electricity Authority constituted under Sub - Section (1) of Section 70 of the Act;
8. 'Commission' means the Maharashtra Electricity Regulatory Commission;
9. 'Connection Agreement' means an agreement setting out the terms relating to connection to and/or use of the intra-State transmission system;
10. 'Connection Point' means a point at which a USER's or Transmission Licensee's Plant and/or Apparatus connects to the intra-State transmission system;
11. 'Earth Fault Factor' at a location in a three phase system means the ratio of 'the highest root mean square (r.m.s) phase-to-earth power frequency voltage on a sound phase during fault to earth (affecting one or more phases)' to 'the r.m.s phase-to-earth power frequency voltage which would be obtained at the selected location without the fault.
12. 'Event logging facility/ Event Logger' means a device provided to record the sequence of operations in time , of relays /equipment at a location during an event;
13. 'Electrical Plant' means any plant, equipment, apparatus or appliance or any part thereof used for, or connected with, the generation, transmission, distribution or supply of electricity but does not include
 - a. an electric line; or
 - b. a meter used for ascertaining the quantity of electricity supplied to any premises;or
 - c. an electrical equipment, apparatus or appliance under the control of a consumer;
14. 'Frequency' means the number of alternating cycles per second (expressed in Hertz).

15. 'Generating Unit' means an Electrical Generator coupled to a prime mover within a Power Station together with all Plants and Apparatus at that Power Station (upto the Connection point) which relates exclusively to the operation of that generator.
16. 'IEC Standard' means standard approved by the International Electrotechnical Commission.
17. 'Isolator' means a device for achieving isolation of one part of an electrical from the rest of the system.
18. 'Grid Entry Point' means a point at which a generating unit is connected to the Grid;
19. 'Grid Supply Point' is a point of supply from the transmission system to a distribution system or to a Bulk consumer;
20. 'Intra-State Transmission System' (InSTS) means any system for conveyance of electricity by transmission lines within the area of the State and includes all transmission lines, sub-stations and associated equipment of transmission licensees in the State;
21. 'Isolating Device' means a device for achieving isolation of one part of an electrical system from the rest of the system;
22. 'Maximum Continuous Rating' means the normal rated full load MW output capacity of the generating unit which can be sustained on a continuous basis at specified conditions
23. 'Power Factor' means the cosine of the electrical angle between the voltage and current complexors in an AC electrical circuit.
24. 'Power System Stabilizers' (PSS) means controlling equipment which receives input signals of speed, frequency and power to control the excitation via the voltage regulator for damping power oscillations of a synchronous machine.
25. 'Protection system' means the equipment by which abnormal conditions in the grid are detected and fault clearance, actuating signals or indications are initiated without the intervention by the operator;
26. 'Reactive Power' means in relation to an AC electrical system, the product of root mean square (r.m.s) voltage, root mean square (r.m.s) current and the sine of the electrical phase angle between the voltage complexor and current complexor, measured in voltamperes reactive (VAR).
27. 'Requestor' means a person such as Generating Company including captive generating plant or Transmission Licensee (excluding Central Transmission Utility and State Transmission Utility) or Distribution Licensee or Bulk Consumer, who is seeking connection of his new or expanded electrical plant to the grid at voltage level 33KV and above.
28. 'Site Common Diagram' means drawings prepared for each Connection Point, which incorporates layout drawings, electrical layout drawings, common protection/control drawings and common service drawings;
29. 'Standards' means "Standards on Grid Connectivity" specified by Central Electricity Authority;
30. 'Single Line Diagram' means diagrams which are a schematic representation of the HV/EHV apparatus and the connections to all external circuits at a Connection Point incorporating its numbering nomenclature and labeling;
31. 'State Grid Code' means the Grid Code specified by the Commission under Section 86(1) (h) of the Act;
32. 'State Transmission Utility' or 'STU' means Maharashtra State Electricity Transmission Company Ltd. notified by Government of Maharashtra as such under sub-section (1) of section 39 of the Act;

33. 'Thermal Generating Unit' means a generating unit using fossil fuels such as coal, lignite, gaseous and liquid fuel.
34. 'Total Harmonic Distortion' (THD) means a measure of distortion of the voltage or current waveform (which shall ideally be sinusoidal) and is the square root of the sum of squares of all voltage or current harmonics expressed as a percentage of the magnitude of the fundamental.
35. 'Transmission System' means a network of transmission lines and sub-stations.
36. Under Frequency Relay'(UFR) means a relay which operates when the system frequency falls below specified limits and initiates load shedding;
37. 'USER' means a person, including in-State Generating Stations, Distribution Licensees Consumers of the Distribution Licensees directly connected to intra-State transmission system and persons availing of Open Access, who are connected to and/or use the intra-State transmission system.
38. 'Voltage Unbalance" means the deviation between highest and lowest line voltage divided by Average Line Voltage of the three phases.

The words and expressions used and not defined herein shall have same meaning as assigned to them under Act and Regulations.

Compliance of Indian Electricity Grid Code: The Indian Electricity Grid Code (IEGC) is a regulation made by the Central Commission in exercise of powers under clause (h) of subsection (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Act. The IEGC also lays down the rules, guidelines and standards to be followed by various persons and participants in the system to plan, develop, maintain and operate the power system, in the most secure, reliable, economic and efficient manner, while facilitating healthy competition in the generation and supply of electricity.

All parties that connect with and/or utilize the InSTS, SLDC, RLDC, NLDC, RPC and Power Exchanges are required to abide by the principles and procedures defined in the IEGC in so far as they apply to that party

Compliance of State Grid Code:

Both the parties agree and confirm that they shall be abiding the provisions of the State Grid Code Regulations 2006 (with amendments thereof) and procedures and operating practices prescribed there under. The parties agree to supply the Standards Planning Data and Detailed Planning Data to the State Transmission Utility as may be specified for the purpose of planning and development of intra-State transmission System in accordance with Section 10 of the State Grid Code.

Both the parties agree to abide by the directions and instructions of State Load Despatch Centre issued in discharge of its functions and comply with any procedure and processes prescribed by the State Load Despatch Centre under the State Grid code. The parties confirm that they shall adhere to the system security standards specified under Section 22 of the State Grid Code and operate respective systems in accordance with Section 21 of the State Grid Code.

In case of discrepancy between terms and conditions stipulated in the Agreement and State Grid Code Conditions, the terms and conditions of the State Grid Code shall prevail.

Compliance of Central Electricity Authority Regulations.

Both the parties agree and confirm that they shall be abiding the provisions of the Central Electricity Authority's Technical Standards for Connectivity to the Grid Regulations 2007 inclusive of any subsequent modifications thereof issued by the CEA.

General Connectivity Conditions

1. Connection Standards and codes of practice

- a) Both the parties shall follow the industry best practices and applicable industry standards in respect of the equipment installation and its operation and maintenance
- b) The equipment including overhead lines and cables shall comply with the relevant Indian standards, British Standards (BS) or International Electrotechnical Commission (IEC) Standard or American National Standards Institute (ANSI) or any other equivalent International Standard.

Provided that, whenever an International Standard or International Electrotechnical Commission Standard is followed, necessary corrections or modifications shall be made for nominal system frequency, nominal system voltage, ambient temperature, humidity and other conditions prevailing in India before actual adoption of the said Standard.

- c) The effect of wind, storms, floods, lightening, elevation, temperature extremes, icing, contamination, pollution and earthquakes must be considered in the design and operation of the connected facilities.
- d) Installation, operation and maintenance of equipment by both the parties shall conform to the relevant standards specified by the Authority under Section 177, and Section 73 of the Act, as and when they come into force.

2. Safety Standards

Both the parties shall comply with the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2007

3. Commercial Arrangement

The commercial arrangement between the parties relating to evacuation and transmission of power shall be governed by the separate Bulk Power Transmission Agreement entered into by these two parties.

Metering at the Inter-connection Points shall be owned and maintained by Transmission Licensee as per Clause 34 of Metering Requirement of MERC (State Grid Code) Regulations, 2006. The Metering System shall be suitable to measure and store all pertinent parameters at all inter-connection points needed for billing the intra-state energy exchange as per the applicable tariffs and for energy accounting and UI settlement system as specified by the Commission from time to time.

MSETCL shall duly inform the Railways regarding all changes in Transmission lines/substations/assets ownership, commissioning and commencement of commercial operation of new assets and any other

relevant development/changes as also the consequent changes in transmission charges payable as specified by the Commission from time to time.

4. Sub-station grounding

Each transmission sub-station must have a ground mat solidly connected to all metallic structures and other non-energised metallic equipment. The mat shall limit the ground potential gradients to such voltage and current levels that will not endanger the safety of people or damage equipment which are in, or immediately adjacent to, the station under normal and fault conditions. The ground mat size and type shall be based on local soil conditions and available electrical fault current magnitudes. In areas where ground mat voltage rises would not be within acceptable and safe limits (for example due to high soil resistivity or Ltd. sub-station space), grounding rods and ground wells may be used to reduce the ground grid resistance to acceptable levels. Sub station grounding shall be done in accordance with the norms of the Institute of Electrical and Electronics Engineers (IEEE) –80.

5. Metering Requirements

Metering requirement at the inter-connection points shall be governed by the latest Metering Code approved by the Commission. The MSETCL and Railways agree to abide by the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006.

6. Basic Insulation Level and Insulation Co-ordination

Basic Insulation Level (BIL) of various items of equipment and ratings of surge arresters for generating stations, lines and sub-stations shall be decided on the following order of priority, namely:-

- a) Ensure safety to public and operating personnel;
- b) Avoid permanent damage to plant;
- c) Prevent failure of costly equipment;
- d) Minimize circuit interruptions; and
- e) Minimize interruptions of power supply to consumers.

Insulation coordination of equipment and lines on connection point belonging to MSETCL and the grid shall be accomplished and the co-ordination shall be done by the Appropriate Transmission Utility.

7. Equipment at Connection Points

The Railways and the MSETCL confirm that their respective equipment at Connection Point shall comply with minimum technical and design criteria specified in the State Grid Code. Single Line Diagram showing arrangement of equipment belonging to the Railways and/ or MSETCL at each connection point are appended with this agreement and also made available to the SLDC. The parties herein agree that they shall not alter the arrangement of equipment at the connection point without consent of other party.

The Railways and the MSETCL confirm that before physical connection of their systems at the connection points they shall intimate to the State Transmission Utility and the State Load Despatch Centre.

8. Site Common Drawings

Both the parties agree that Site Common Drawings showing layout of equipments, electrical layout drawings, common protection/control drawings and common service drawings shall be prepared at each Connection Point before taking up construction, erection and Commissioning of equipment. The parties herein agree that following drawings as may be necessary shall be prepared for connection arrangement:

- a) Site Layout;
- b) Electrical Layout;
- c) Details of Protection; and
- d) Common Services Drawings

9. Inspection, Test, calibration and Maintenance prior to connection:

Before connecting, MSETCL shall complete all inspections and tests finalized in consultation with the State Transmission Utility or MSETCL to which its equipment is connected. MSETCL shall make available all drawings, specifications and test records of the project equipment pertaining to integrated operation to the State Transmission Utility or licensee or Generating Station as the case may be.

10. Site Responsibility Schedule

A Site Responsibility Schedule (SRS) for every Connection Point shall be prepared by the owner of the sub-station where connection is taking place.

The following information shall be included in Site Responsibility Schedule (SRS), namely:

- a) Schedule of electrical apparatus, services and supplies
- b) Schedule of telecommunications and measurement apparatus
- c) Safety rules applicable to each plant/apparatus.

Following information shall be furnished in the Site Responsibility Schedule for each item of equipment installed at the Connection site, namely

- a) The ownership of Plant/ apparatus
- b) The responsibility for control of Plant/ apparatus
- c) The responsibility for maintenance of Plant/ apparatus
- d) The responsibility for operation of Plant/ apparatus
- e) The manager of the Site
- f) The responsibility for all matters relating to safety of persons at site
- g) The responsibility for all matters relating to safety of equipment at site

No connection shall be made unless Site Responsibility Schedule is prepared and signed by all concerned parties.

11. Capital Expenditure by parties

Both the parties agrees that any capital expenditure arising from necessary reinforcement or extension of the system at the connection point shall be dealt in accordance with of MERC (Multiyear Tariff) Regulations, 2011 (with amendments thereof) and shall be shared by the parties in accordance with the provisions of the said clause or regulatory orders/directions as the case may be.

12. Agreement to Pay Charges & Costs

a. Agreement to Monthly Transmission Tariff

The applicant declares that it shall pay the Monthly Transmission Tariff including ULDC/NLDC charges, for use of Inter-State Transmission System, as and when Long term access, Medium-term open access or short-term open access is availed by the applicant, in accordance with the relevant regulations of CERC in this regard.

b. Agreement to additional costs

The applicant declares that it shall pay the cost towards modification/alterations to the infrastructure of STU or Intra-state transmission licensee other than the STU, as the case may be, for accommodating the proposed connection as specified in the letter of STU furnishing connection details.

c. Agreement to pay for damages

The applicant declares that it shall pay/ make good damages, if any, caused by the customer to the property of the STU or Intra-state transmission licensee other than the STU, as the case may be, which has been notified by the STU or Intra-state transmission licensee other than the STU, as the case may be, within reasonable time of its occurrence, during the course of control, operation and maintenance of the equipment.

d. Agreement to pay Charges for construction of Bays:

The applicant or Intra-State transmission licensee will execute an agreement with STU for the Erection of equipment of applicant or Intra-State transmission licensee in the substation premises of the STU for construction of bays, if required. For this purpose the applicant or Intra-State transmission licensee shall pay charges to the STU on mutually agreed terms.

e. Agreement to pay O&M Charges:

The applicant or Intra-State transmission licensee shall pay O&M charges to the STU on mutually agreed terms for the bay equipment of applicant or Intra-State transmission licensee being operated & maintained by the STU in their substation. These O&M charges will be governed time to time as per the mutually agreed terms.

13. Conditions Precedent to the implementation of the Commissioning Instructions

The applicant or Intra-State transmission licensee shall have to get appropriate "Commissioning Instruction" prior to actually first charging of the equipment through the grid. The charging instruction shall be issued only when the STU is satisfied (by acting reasonably) that:

- (a) the Connection Works have been completed;
- (b) the applicant has complied with its all obligations as set out in the Offer Letter;
- (c) the applicant or Intra-State transmission licensee has demonstrated the voice & data communication facilities to concerned SLDC;
- (d) the applicant or Intra-State transmission licensee has obtained necessary approvals like PTCC, Electrical Inspectorate of CEA etc. from competent authority;
- (e) the applicant or intra-State transmission licensee has complied with its obligations under the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007.

14. General philosophy and guidelines on Protection:

The parties agree and confirm that connection with Intra-State Transmission System shall comply with following minimum technical and design criteria with regard to System parameters and protection.

Grid Parameter Variations

General

The parties shall ensure that Plant and Apparatus requiring service from or providing service to the intra-State Transmission System is of such design and construction that satisfactory operation of such Plant and Apparatus will not be prevented by variation in instantaneous values of system frequency and voltage from their nominal values.

Frequency Variation

Rated frequency of the system shall be 50.0 Hz and connected equipment must be capable of operating within the limits specified in Indian Electricity Grid Code 2010 and its amendments, Clause 15.2 of the State Grid Code Regulation 2006 and its amendments and Central Electricity Authority (Grid Standards) Regulations 2010 and its amendments .

| Target (CEA Grid Standards Regulation) | Variations (%) | Value (Hz) |
|--|----------------|------------|
| Upper Limit | +1% | 50.2 Hz |
| Lower Limit | -2% | 49.6 Hz |

Voltage Variation

The variations of voltage may not be more than the voltage range specified in the regulations as per Clause 15.3 and Clause 22.24 of State Grid Code Regulation 2006.

Protection System

1. Protection System shall be designed to reliably detect faults on various abnormal conditions and provide an appropriate means and location to isolate the equipment or system automatically. The protection system must be able to detect power system faults within the zone. The protection system should be able to detect abnormal conditions such as equipment failures or open phase conditions.
2. Every Element of the Power system shall be protected by a standard protection system having the required reliability, selectivity, speed, discrimination and sensitivity. Where failure of a protective relay in the MSETCL's system has substantial impact on the grid, the MSETCL shall connect an additional protection as back up protection besides the Main protection.
3. Notwithstanding the protection systems provided in the grid, the MSETCL shall provide requisite protections for safeguarding his system from faults originating in the grid.
4. Bus bar Protection and Breaker Fail protection or Local Breaker Back-up Protection shall be provided wherever stipulated in the regulations.

5. Special Protection Scheme such as Under Frequency relay for Load shedding, voltage instability, angular instability, generation backing down or Islanding Schemes may also be required to be provided to avert system disturbances.
6. Protection co-ordination issues shall be finalized at regional levels by Regional Electricity Board/ Regional Power Committee and for Intra-State lines by STU
7. The MSETCL shall develop protection manuals conforming to various standards for the reference and use of its personnel.

Sub-Station Equipment

All Extra High Voltage (EHV) sub-station equipments of both the parties shall comply with Bureau of Indian Standards/International Electro technical Commission/prevaling Code of practice.

All equipment shall be designed, manufactured and tested and certified in accordance with the quality assurance requirements as per the standards of International Electro technical Commission or the Bureau of Indian Standards.

Each connection shall be controlled by a circuit breaker capable of interrupting, at the connection point, at least the short circuit current as advised by State Transmission Utility.

Fault Clearance Times

The fault clearance time for primary protection schemes, for a three phase fault (close to the busbars) on MSETCL equipment directly connected to intra-State Transmission System and for a three phase fault (close to the bus-bars) on intra-State Transmission System connected to MSETCL equipment, shall not be more than:

- a) 100 milli seconds for 800 kV class & 400 kV
- b) 160 milli seconds for 220 kV & 132 kV/110kV /100kV

Back-up protection shall be provided for required isolation/protection in the event of failure of the primary protection systems provided to meet the above fault clearance time requirements. If a Generating Unit is connected to the intra-State Transmission System directly, it shall be capable of withstanding, until clearing of the fault by back-up protection on the intra-State Transmission System side.

15. Reactive Power Compensation

Both the parties agree that the reactive Power compensation and/or other facilities shall be provided by Railway MSETCL, as far as possible, in the low voltage systems close to the load points thereby avoiding the need for exchange of Reactive Power to/from the intra-State Transmission System and to maintain the intra-State Transmission System voltage within the specified range.

The parties agrees that they shall endeavour to minimize the Reactive Power drawal at an interchange point when the voltage at that point is below 95% of rated voltage, and shall not inject Reactive Power when the voltage is above 105% of rated voltage.

Switching in/out of all 400 kV bus and line Reactors throughout the grid shall be carried out as per instructions of State Load Despatch Centre. Tap changing on all 400/220 kV Interconnecting Transformers shall also be done as per the instructions of State Load Despatch Centre only.

16. Communication Facilities

The Railway and the MSETCL agree to provide reliable and efficient speech and data communication systems to facilitate necessary communication and data exchange as prescribed by the SLDC for supervision/control of the State Grid under normal and abnormal conditions at their respective ends at their own cost. The Railway and MSETCL agree to abide by the guidelines of the State Load Despatch Centre issued under Section 17 of the State Grid Code.

17. System Recording Instruments

Railways and MSETCL agree to provide the recording instruments such as Data Acquisition System/Disturbance Recorder/Event Logger/Fault Locator (including time synchronization equipment) as may be necessary under applicable standards within the time frame specified in the State Grid Code.

Every Generating Station and sub-station connected to the grid at 220 KV or above shall be provided with Disturbance Recording and Event Logging facilities. All such equipment shall be provided with time synchronization facility for global common time reference.

18. Access to both parties

The parties owning the Connection Site as the case may be shall provide reasonable access and other required facilities to another including the SLDC, whose equipment is proposed to be installed / installed at the Connection Site for installation, operation, maintenance, etc.

Written procedures and agreements shall be developed between entities to ensure that mandatory access is available to the entity concerned at the same time safeguarding the interests of both entities at the connection site.

The authorized personnel of both parties shall have the right to inspect the plant of other party at inter-connection point to ensure conformity to standards and restrictions.

* 19. Unintended and Unscheduled back-energisation

Both the parties agree and confirm that they shall take adequate precautions to ensure that no part of the grid is energized by _ _ _ system from another source of supply unless it is requisitioned in writing by the other party as an exceptional arrangement. The switchgear and controls of MSETCL systems shall be so designed as to prevent back-energisation and the personnel shall be made aware of the need for this precaution.

20. Notice

All correspondence/notices required or referred to under this Agreement shall be in writing and signed by the respective authorized signatories of the Railway and MSETCL mentioned herein, unless otherwise notified. Each such notice shall be deemed to have been duly given if delivered or served by registered mail/speed post of the department of post with an acknowledgment due to other party (ies) as per authorization by parties.

The authorities of the parties who shall be responsible for the correspondence notices etc. in connection with this agreement shall be informed in advance.

21. Settlement of Disputes and Arbitration

All differences and/or disputes between the railway and MSETCL arising out of or in connection with these presents shall at first instance be settled through amicable settlement at the level of CEO/CE.

In the event of unresolved disputes or differences as covered under the statutory arbitration provided under The Electricity Act, 2003, the same shall be resolved accordingly.

Notwithstanding the existence of any disputes and differences referred to arbitration, the parties herein shall continue to perform their respective obligations under this Agreement.

22. Force Majeure

Force Majeure herein is defined as any clause which is beyond the control of the STU or the applicant or intra-State transmission licensee as the case may be, which could not be foreseen or with a reasonable amount of diligence could not have been foreseen and which substantially affects the performance of the agreement. Force Majeure events would include :

- Natural phenomenon including but not limited to floods, droughts, earthquake and epidemics;
- War (whether declared or undeclared), invasion, armed conflict or act of foreign enemy in each case involving or directly affecting India, revolution, riot, insurrection or other civil commotion, act of terrorism or sabotage in each case within India;
- Nuclear explosion, radio active or chemical contamination or ionizing radiation directly affecting the generation station, captive generating plant or bulk consumer, inter-state transmission system of the STU or Intra-state transmission licensee other than STU, or any facility or system that is integral to and substantial for the performance of this agreement.
- Any event or circumstances of a nature analogous to any events set forth above within India.

Provided either party shall within fifteen (15) days from the occurrence of such a Force Majeure event notify the other in writing of such cause(s).

Neither of the parties shall be liable for delays in performing obligations on account of any force majeure causes as referred to and/or defined above.

23. Confidentiality

The Railway and MSETCL shall keep in confidence any information obtained under this Connection Agreement and shall not divulge the same to any third party without the prior written consent of the other party, unless such information is

- a. in the public domain,
- b. already in the possession of the receiving party,
- c. required by the Govt. Ministries/Agencies/Court of competent jurisdiction.

The information exchanged herein between the parties shall be used only for the purpose of, and in accordance with, this Agreement and for the purpose stated herein. This clause shall remain in force even after termination of Connection Agreement.

24. Transfer Assignment and Pledge

The MSETCL or Intra-State transmission licensee shall not transfer, assign or pledge its rights and obligations under this connection agreement to any other person.

25. Term of Agreement & Amendment to the Agreement

This agreement shall remain valid unless both the Railway and MSETCL with mutual agreement decide to amend/modified in respect of re-allocation of bays, upgradation of voltage level etc. or terminate it.

In witness whereof the parties have signed this agreement on the day, month and year first written above.

For and on behalf of Railway
(One by one details of Companies
from A-Z)
(TSU)

For and on behalf of MSETCL
(Transmission Licensee)

In the presence of

- 1.
- 2.

Grid Connectivity Standards applicable to the Generating Units

The units at a generating station proposed to be connected to the grid shall comply with the following requirements besides the general connectivity conditions given in the regulations and general requirements given in the general connectivity conditions in this document.

New Generating Units

2. The excitation system for every generating unit
 - a. shall have state of the art excitation system;
 - b. shall have Automatic Voltage Regulator (AVR). Generators of 100 MW rating and above shall have Automatic Voltage Regulator with digital control and two separate channels having independent inputs and automatic changeover and
 - c. The Automatic Voltage Regulator of generator of 100 MW and above shall include Power System Stabilizer (PSS)
3. The Short -Circuit Ratio (SCR) for generators shall be as per IEC-34.
4. The generator transformer windings shall have delta connection on low voltage side and star connection on high voltage side. Star point of high voltage side shall be effectively (solidly) earthed so as to achieve the Earth Fault Factor of 1.4 or less.
5. All generating machines irrespective of capacity shall have electronically controlled governing system with appropriate speed/load characteristics to regulate frequency. The governors of thermal generating units shall have a droop of 3 to 6% and those of hydro generating units 0 to 10%.
6. The project of the _____ ^{Railways} MSETCL shall not cause voltage and current harmonics on the grid which exceed the limits specified in Institute of Electrical and Electronics Engineers (IEEE) Standard 519.
7. Generating Units located near load centre, shall be capable of operating at rated output for power factor varying between 0.85 lagging (over-excited) to 0.95 leading (underexcited) and Generating Units located far from load centers shall be capable of operating at rated output for power factor varying between 0.9 lagging (over-excited) to 0.95 leading (under-excited). The above performance shall also be achieved with voltage variation of +5% of nominal, frequency variation of +3% and -5% and combined voltage and frequency variation of +5%. However, for gas turbines, the above performance shall be achieved for voltage variation of +5%.
8. The coal and lignite based thermal generating units shall be capable of generating up to 105% of Maximum Continuous Rating (subject to maximum load capability under Valve Wide Open Condition) for short duration) to provide the frequency response.
9. The hydro generating units shall be capable of generating up to 110% of rated capacity (subject to rated head being available) on continuous basis.
10. Every generating unit shall have standard protections to protect the units not only from faults within the units and within the station but also from faults in transmission lines. For generating units having rated capacity greater than 100 MW, two independent sets of protections acting on two independent sets of trip coils fed from independent Direct Current (DC) supplies shall be provided. The protections shall include but not be Ltd. to the Local Breaker Back-up (LBB) protection.

11. Hydro generating units having rated capacity of 50 MW and above shall be capable of operation in synchronous condenser mode, wherever feasible.
12. Bus bar protection shall be provided at the switchyard of all generating station.
13. Automatic synchronization facilities shall be provided in the MSETCL's Project.
14. The Reactive demand and Injections shall be in compliance with Clause 16.4 of the State Grid Code.
15. The station auxiliary power requirement, including voltage and reactive requirements, shall not impose operating restrictions on the grid beyond those specified in the Grid Code or state Grid Code as the case may be.
16. In case of hydro generating units, self-starting facility may be provided. The hydro generating station may also have a small diesel generator for meeting the station auxiliary requirements for black start.
17. The standards in respect of the sub-stations associated with the generating stations shall be in accordance with the provisions specified in respect of 'Sub-stations' under Schedule 2 of these Standards.

Existing Units

For thermal generating units having rated capacity of 200 MW and above and hydro units having rated capacity of 100 MW and above, the following facilities would be provided at the time of renovation and modernization.

1. Every generating unit shall have Automatic Voltage Regulator. Generators having rated capacity of 100MW and above shall have Automatic Voltage Regulator with two separate channels having independent inputs and automatic changeover.
2. Every generating unit of capacity having rated capacity higher than 100Mw shall have Power System Stabilizer.
3. All generating units shall have standard protections to protect the units not only from faults within the units and within the station but also from faults in transmission lines. The protections shall include but not Ltd. to the Local Breaker Back-up (LBB) protection.

Grid Connectivity Standards applicable to the Transmission Line and Sub-station

The transmission lines and sub-stations connected to the grid shall comply with the following additional requirements besides the general connectivity conditions under these regulations and General Standards for Connectivity to the Grid.

1. Bus bar protection shall be provided on all sub-stations at and above 220 kV levels for all new sub-stations. For existing sub-stations, this shall be implemented in a reasonable time frame.
2. Local Breaker Back-up (LBB) protection shall be provided for all sub-stations of 220kV and above.
3. Two main numerical Distance Protection Schemes shall be provided on all the transmission lines of 220 kV and above for all new sub-stations. For existing substations, this shall be implemented in a reasonable time frame.
4. Circuit breakers, isolators and all other current carrying equipment shall be capable of carrying normal and emergency load currents without damage. The equipment shall not become a limiting factor on the ability of transfer of power on the inter-state and intra-state transmission system.
5. All circuit breakers and other fault interrupting devices shall be capable of safely interrupting fault currents for any fault that they are required to interrupt. The Circuit breaker shall have this capability without the use of intentional time delay in clearing the fault. Minimum fault interrupting requirement need be specified by the State Transmission Utility. The Circuit Breaker shall be capable of performing all other required switching duties such as, but not limited to, capacitive current switching, load current switching and out-of-step switching. The Circuit Breaker shall perform all required duties without creating transient over-voltages that could damage the equipment provided elsewhere in the grid. The short circuit capacity of the circuit breaker shall be based on short-term and perspective transmission plans as finalized by the Authority.
6. Power Supply to Sub-Station Auxiliaries, shall:
 - a) for alternating current (AC) supply (Applicable to new sub-stations) 220 kV and above: Two high tension (HT) supplies shall be arranged from independent sources. One of the two high tension supplies shall be standby to the other. In addition, an emergency supply from diesel generating (DG) source of suitable capacity shall also be provided.
66KV and below 220 kV: There shall be one HT supply and one diesel generating source.
33 kV and below 66 kV: There shall be one HT supply
 - b) for direct current (DC) Supply (Applicable to new sub-stations): Sub-station of transmission system for 132 kV and above and sub-stations of all generating stations: There shall be two sets of batteries, each equipped with its own charger.
 - c) For sub-station below 132 kV: there shall be one set of battery and charger.
7. Earth Fault Factor for an effectively earthed system shall be not more than 1.4.
8. Transmission Licensee shall provide line Reactors as may be necessary after carrying out system studies to control temporary over voltage within the limits as set out above.

9. The parties agree that Inter-Connecting Transformer (ICT) taps at the respective drawal points may be changed to control the Reactive Power interchange as per _ _ _ request to the State Load Despatch Centre, but only at reasonable intervals.

Grid Connectivity Standards applicable to the Distribution Systems and Bulk Consumers

The following additional requirements shall be complied with. Besides the connectivity conditions in these regulations and general Standards for Connectivity to the Grid given in Part-I and those applicable to transmission lines and sub-stations in part III

1. Under Frequency and df/dt Relays

Under frequency and df/dt (rate of change of frequency with time) relays shall be employed for automatic load control in a contingency to ensure grid security under conditions of falling grid frequency in accordance with the decision taken in the Regional Power Committee.

2. Reactive Power

The distribution licensees shall provide adequate reactive compensation to compensate the inductive reactive power requirement in their system so that they do not depend upon the grid for reactive power support; the power factor of the distribution system and bulk consumer shall not be less than 0.95.

The Reactive demand and Injections shall be in compliance with Clause 16.4 of the State Grid Code

3. Voltage and Current Harmonics

- i. The total harmonic distortion for voltage at the connection point shall not exceed 5% with no individual harmonic higher than 3%.
- ii. The total harmonic distortion for current drawn from the transmission system at the connection point shall not exceed 8%.
- iii. The limits prescribed in (1) and (2) shall be implemented in a phased manner so as to achieve complete compliance not later than five years from the date of publication of these regulations in the official Gazette.

4. Voltage Unbalance

The Voltage Unbalance at 33 kV and above shall not exceed 3.0%.

5. Voltage Fluctuations

- i. The permissible limit of voltage fluctuation for step changes, which may occur repetitively, is 1.5%.
- ii. For occasional fluctuations other than step changes the maximum permissible limit is 3%.
- iii. The limits prescribed in (1) and (2) above shall come into force not later than five years from the date of publication of these regulations in the Official Gazette.

6. Back-energization

The consumer shall not energize transmission or distribution system by injecting supply from his generators or any other source either by automatic controls or manually unless specifically requested by the Transmission or Distribution Licensee.

SITE RESPONSIBILITY SCHEDULE

Format, Principles and Procedure
(Pursuant to Section 19 of the State Grid Code)

TABLE OF CONTENTS

| | | |
|------------|---|-----------|
| A1: | SITE RESPONSIBILITY SCHEDULE | 23 |
| 1. | Introduction..... | 23 |
| 2. | Objectives | 23 |
| 3. | Scope and Applicability | 23 |
| 4. | Availability of copy of Format and Procedure | 23 |
| 5. | Operational responsibility | 24 |
| 6. | Definitions | 24 |
| 7. | Safety | 25 |
| 8. | Responsibility for preparation of Site Responsibility Schedule..... | 25 |
| 9. | Site Responsibility Schedule Contents..... | 25 |
| 10. | Single Line Diagram | 26 |
| 11. | Site Common Drawings | 26 |
| 12. | Access at Connection Site | 27 |
| | General Format of Site Responsibility Schedule | 28 |

A1: SITE RESPONSIBILITY SCHEDULE

1. Introduction

Part C of the State Grid Code relates to Connection Conditions for connectivity with Intra State Transmission System and lays down detailed procedure for establishing or modifying existing arrangement of connection to and/or use of Intra-State Transmission System. A Site Responsibility Schedule for work relating to each connection is required to be prepared detailing responsibilities of each party for ownership, control, operation, maintenance, and safety of any person at Connection Site.

This document describes the format, principles and procedure for preparation of SRS for the works to be carried out for new connections or modifying an existing connection to and/or use of the Intra-State Transmission System.

2. Objectives

The objective of this procedure is to ensure that the responsibilities of the parties seeking connection or modification of an existing connection with Intra State Transmission System are clearly identified in the Site Responsibility Schedule.

3. Scope and Applicability

The Site Responsibility Schedule shall be prepared for all new connections or modifying an existing connection to and/or use of Intra-State Transmission System.

Railways, forming part of the Intra State Transmission System, and MSETCL, User of the Intra State Transmission System shall comply with the following requirements at all existing Connection Points within a period of one (1) year of notification of State Grid Code i.e. before 15th February 2007.

- a) Single Line Diagram of each connection point
- b) Site Common Drawings of each connection point

4. Availability of copy of Format and Procedure

The Format, principles, and procedure for preparation of the Site Responsibility Schedule at connection point of the intra-State Transmission System (Pursuant to Section 19 of the State Grid Code) can be obtained from Nodal Officer of STU as given below:

Chief Engineer (STU),
Maharashtra State Electricity Transmission Company Ltd.
"Prakash Ganga", Plot No.C-19,E-Block, Bandra- Kurla Complex,
Mumbai-400051
Tel: 022- 26595175/76; Mobile: 9819363329; Fax: 022-26591222
E-mail: cestu@mahatransco.in, cestu@maharashtrastu.com

The copy of application form and the procedure is also available at MSETCL web-sites www.mahatransco.in & www.maharashtrastu.com and can be downloaded from website.

The copy of the Format and Procedure can also be obtained from the concerned MSETCL with whom *--- seeks connection.*

Railway

5. Operational responsibility

The Nodal Officer of STU nominated by the MSETCL shall be responsible for coordination and implementing the procedure of Site Responsibility Schedule and ensuring that the process is carried out on a continuous basis. He shall also coordinate with other transmission licensees for the connectivity with Intra-State Transmission System.

6. Definitions

In this procedure unless the context otherwise requires the definitions of terms used shall be as follows:

1. 'Act' means the Electricity Act, 2003;
2. 'Apparatus' means all equipment in which electrical conductors are used, supported or of which they form a part;
3. 'Bulk Consumer' means a consumer who avails supply at Extra High voltage exceeding 33 kV
4. 'CEA or Authority' means the Central Electricity Authority constituted under Sub - Section (1) of Section 70 of the Act;
5. 'Commission' means the Maharashtra Electricity Regulatory Commission;
6. 'Connection Agreement' means an agreement setting out the terms relating to connection to and/or use of the intra-State transmission system;
7. 'Connection Point' means a point at which a User's or Transmission Licensee's Plant and/or Apparatus connects to the intra-State transmission system;
8. 'Electrical Plant' means any plant, equipment, apparatus or appliance or any part thereof used for, or connected with, the generation, transmission, distribution or supply of electricity but does not include-
 - a. an electric line; or
 - b. meter used for ascertaining the quantity of electricity supplied to any premises; or
 - c. an electrical equipment, apparatus or appliance under the control of a consumer;
9. 'Grid Entry Point' means a point at which a generating unit is connected to the Grid;
10. 'Grid Supply Point' is a point of supply from the transmission system to a distribution system or to a Bulk consumer ;
11. 'Intra-State Transmission System' means any system for conveyance of electricity by transmission lines within the area of the State and includes all transmission lines, sub-stations and associated equipment of transmission licensees in the State;
12. 'Isolating Device' means a device for achieving isolation of one part of an electrical system from the rest of the system;
13. 'Protection' means the system whereby abnormal conditions on a system are detected and fault clearance, actuating signals or indications are initiated;
14. 'Site Common Diagram' means drawings prepared for each Connection Point, which incorporates layout drawings, electrical layout drawings, common protection/control drawings and common service drawings;
15. 'Standards' means "Standards on Grid Connectivity" specified by Central Electricity Authority;

16. 'Single Line Diagram' means diagrams which are a schematic representation of the HV/EHV apparatus and the connections to all external circuits at a Connection Point incorporating its numbering nomenclature and labeling;
17. 'State Grid Code' means the Grid Code specified by the Commission under Section 86 (1) (h) of the Act.
18. 'State Transmission Utility' or 'STU' means Maharashtra State Electricity Transmission Company Ltd. notified by Government of Maharashtra as such under sub-section (1) of section 39 of the Act;
19. 'User' means a person, including in-State Generating Stations, Distribution Licensees Consumers of the Distribution Licensees directly connected to Intra-State Transmission System and persons availing of Open Access, who are connected to and/or use the intra-State transmission system:

The words and expressions used and not defined herein shall have same meaning as assigned to them under State Grid Code.

7. Safety

The responsibility of parties for safety at the Connection Point and system connected thereto shall be clearly indicated in the Site Responsibility Schedule so that there are no chances of misunderstanding and role of each party is clearly defined. The safety responsibility shall be defined in unambiguous terms.

8. Responsibility for preparation of Site Responsibility Schedule

Site Responsibility Schedule shall be prepared by the MSETCL with whose system the seeks to connect. The general format of the Site Responsibility Schedule is given in Annexure-1. The Site Responsibility Schedule shall be prepared and finalised by the MSETCL in consultation and in agreement with the seeking connection with Intra State Transmission System.

At the connection site where equipment of both entities, i.e., the parties are installed, the MSETCL/Railways shall furnish required data to the MSETCL and the MSETCL shall prepare Site Responsibility Schedule. At a generating station, the MSETCL shall furnish the necessary data to the generating company who shall prepare Site Responsibility Schedule.

The Site Responsibility Schedule shall be signed by the authorised person of the MSETCL and the authorised person of the Railways

The Site Responsibility Schedule shall form integral part of Agreement between the concerned parties connected to its system.

9. Site Responsibility Schedule Contents

Following information shall be included in the Site Responsibility Schedule: -

- a. Schedule of High Voltage (HV) Apparatus
- b. Schedule of plant, Low Voltage (LV) / Medium Voltage (MV) apparatus,
- c. Services and supplies

- d. Schedule of telecommunications and measurement apparatus
- e. Safety rules applicable to each plant/apparatus.

The Site Responsibility Schedule necessarily to provide responsibility with regard to following for each item of equipment installed at the connection site:

- a. The ownership of Plant/ apparatus
- b. The responsibility for control of Plant/ apparatus
- c. The responsibility for maintenance of Plant/ apparatus
- d. The responsibility for operation of Plant/ apparatus
- e. The manager of the Site
- f. The responsibility for all matters relating to safety of persons at Site.

10. Single Line Diagram

Single Line Diagram shall be prepared by parties for each connection point detailing all equipments at the connection point.

Single Line Diagram shall clearly indicate the schematic representation of the all HV/EHV apparatus and the connections to all external circuits at a Connection Point. The Single Line Diagram shall incorporate standard numbering nomenclature and labelling of the MSETCL.

Single Line Diagram shall be furnished for each connection point by the connected _ _ _ or MSETCL to the State Load Despatch Centre.

In the event of a proposal to change any equipment, the concerned parties shall intimate the necessary changes required to State Transmission Utility and all other Users / MSETCL. Single Line Diagram shall be updated appropriately by the concerned parties and a copy of the same shall be provided to the State Load Despatch Centre.

11. Site Common Drawings

Drawings at each Connection Point showing layout of equipments, electrical layout drawings, common protection/control drawings and common service drawings shall be prepared at each connection point. These drawings are collectively called as Site Common Drawings.

Site Common Drawings for each Connection Point will include the following information:

- a. Site Layout;
- b. Electrical Layout;
- c. Details of Protection; and
- d. Common Services Drawings.

Detailed drawings shall be prepared by MSETCL and ^{Railways} _ _ _ in respect of their system/facility at each Connection Point and copies of the same shall be made available to concerned ^{Railways} _ _ _ and MSETCL respectively.

In case of any changes in the Site Common Drawings that are found necessary by MSETCL or Railway in respect of their system/facility at the Connection Point, the details of such changes shall be furnished to the other party as soon as possible.

12. Access at Connection Site

The parties owning the Connection Site shall provide reasonable access and other required facilities to another Transmission Licensee or MSETCL whose equipment is installed or proposed to be installed at the Connection Site for installation, operation, maintenance, etc.

Written procedures and agreements shall be developed between the parties to ensure that mandatory access is available to the concerned MSETCL or Railway at the same time safeguarding the interests of the parties at the Connection Site.

General Format of Site Responsibility Schedule

Annexure-1

| | |
|---|------------|
| Name of Transmission Licensee | --- MSETCL |
| Name & Designation of co-ordinating officer of Transmission Licensee | |
| Contact Address Telephone Mobile Fax No E-mail Id | |
| Name of Sub-Station where inter- connection with InSTS is proposed | |
| Voltage of Connection with intra -State Transmission System | 400 KV |
| Name of User (including other transmission licensee) seeking connection with InSTS. | MSETCL |
| Name & Designation of co-ordinating officer of User | |
| Contact Address Telephone /Mobile/ Fax No E-mail Id | |

Activity Responsibility

| Item of Plant/Apparatus | Plan Owner | Safety Responsibility | Control Responsibility | Operation Responsibility | Maintenance Responsibility | Remark |
|---|---|--------------------------|---------------------------|-----------------------------|-------------------------------|--------|
| Give details of all equipment at connection site | -----Details as per filled in performa enclosed herewith----- | | | | | |
| Metering System | -----Details as per filled in performa enclosed herewith----- | | | | | |
| Name, designation and Contact details (Telephone/Mobile/E-mail) of authorized officer responsible for activity on behalf of Transmission Licensee | | | | | | |
| Signature | | | | | | |
| Name, designation and Contact details (Telephone/Mobile/E-mail) of authorized officer responsible for activity on behalf of user | | | | | | |
| Signature | | | | | | |

Date:

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING

Details of Energy Meters.

Annexure : I-A

| Sr.No. | Name of feeder where | Type of Meter | Make and Model | Class of Meter | Sr.No. Meter. |
|--------|----------------------|---------------|----------------|----------------|---------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

Type of Meter

- 1) Panel Meter (Import / Export)
- 2) ABT Main and Check Meter
- 3) Billing Energy Meters
- 4) Express Feeder Separated Energy Meter.

Executive Engineer (Trans. O&M)

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING**Details of Capacitive Voltage Transformers (Metering)****Annexure I-B**

| Sr. No. | Name of Feeder where installed | Make | Voltage Ratio | Class | No. of Cores | Burden in VA | Insulation Level | Type | Sr. No. | Lab. Testing No. |
|---------|--------------------------------|------|---------------|-------|--------------|--------------|------------------|------|---------|------------------|
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |

Type: CVT / PT & Model No.**Executive Engineer (Trans. O&M)**

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING**Details of Electro Magnetic Voltage Transformers (Protection)****Annexure I-C**

| Sr.No. | Name of Feeder where installed | Make | Voltage Ratio | Class | No.of Cores | Burden in VA | Insulation Level | Type | Sr.No. | Lab. Testing No. |
|--------|--------------------------------|------|---------------|-------|-------------|--------------|------------------|------|--------|------------------|
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |

Type: CVT / PT & Model No.

Executive Engineer (Trans. O&M)

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING

Details of Current Transformers (Metering)

Annexure I-D

| Sr. No. | Name of Feeder where installed | Make | Voltage | Ratio | No. of Cores | Class | Burden in VA | Sr.No. | Lab. Testing No. |
|---------|-----------------------------------|------|---------|-------|-----------------|-------|-----------------|--------|---------------------|
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |

Type CVT / PT & Model No.

Executive Engineer (Trans. O&M)

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING**Details of Current Transformers (Protection)****Annexure I-E**

| Sr. No. | Name of Feeder where installed | Make | Voltage | Ratio | No. of Cores | Class | Burden in VA | Sr.No. | Lab. Testing No. |
|---------|--------------------------------|------|---------|-------|--------------|-------|--------------|--------|------------------|
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |

Type CVT / PT & Model No.**Executive Engineer (Trans. O&M)**

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING

Details of Circuit Breakers.

Annexure I-F

| Sr.N o. | Name of Line / TF | Make | Type | Model | Breaker No. | Normal Current in AMP | Capacity in KV | Rupturing Current | DC Voltage | Working Pressure |
|------------|----------------------|------|------|-------|----------------|-----------------------------|-------------------|----------------------|---------------|---------------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Breaker Type: MOCB, SF6, ABCB etc.

Executive Engineer (Trans. O&M)

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING

Details of Isolators.

Annexure I-G

| Sr.No. | Name of Line / TF Where Provided | Make | Voltage | Capacity in AMP. | Type | Sr. No | With ES | Without ES |
|--------|-------------------------------------|------|---------|---------------------|------|--------|---------|------------|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

Type: Double Break (DB), Centre Break (CB) etc.

Executive Engineer (Trans. O&M)

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING

Details of LAs.

Annexure I-H

| Sr.No. | Name of Line / TF Where Installed | Make | Type | Voltage | Sr.No. | | |
|--------|--------------------------------------|------|------|---------|--------|------|------|
| | | | | | R-Ph | Y-Ph | B-ph |
| 1 | | | | | | | |
| 2 | | | | | | | |

Executive Engineer (Trans. O&M)

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING

Details of Coupling Capacitors & Wave Trap.

Annexure I-I

Details of coupling Capacitor (C.C.)

| Sr.No. | Name of Line / TF where installed | Make | Type | Voltage | Burden / Value | Sr.No. C.C | Phase |
|--------|--------------------------------------|------|------|---------|-------------------|------------|-------|
| 1 | Not Applicable | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |

Details of Wave Trap (W.T)

| Sr.No. | Name of Line / TF Where installed | Make | Capacity / Value | Sr.No. of C.C. | | |
|--------|--------------------------------------|------|------------------|----------------|--|--|
| 1 | | | | | | |
| 2 | | | | | | |

Executive Engineer (Trans. O&M)

DETAILS OF ALL EQUIPMENT AND METERING SYSTEM FOR BAYS CONNECTING**Details of Control & Relay (C&R) Panel****Annexure I-J**

| Sr.No. | Name of Line / TF Where installed | Make | Sr. No. of Panel | Diff. Protn. Make / Type / Sr.No. | Dist. Protn. Make / Type / Sr.No. | Back up Protn. Make / Type / Sr.No. |
|---------------|--|-------------|-------------------------|--|--|--|
| 1 | | | | | | |
| 2 | | | | | | |

Procedure for Settlement of Intra-State Transmission Charges (Billing Collection & Disbursement)

In accordance with the
Maharashtra Electricity Regulatory Commission
(Transmission Open Access) Regulations, 2014 and
MERC Order on Transmission Pricing Framework for
the State of Maharashtra
[Case no. 58 of 2005 dated 27th June 2006]



Prepared by

**STATE TRANSMISSION UTILITY
MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD**

SEPTEMBER - 2015

TABLE OF CONTENTS

| | |
|--|----|
| 1. BACKGROUND | 2 |
| 2. SHARING OF TTSC AMONGST TRANSMISSION SYSTEM USERS (TSUS) | 3 |
| 3. MONTHLY BILL FOR TRANSMISSION CHARGES RAISED BY STU..... | 5 |
| 4. ADDITIONAL PENAL CHARGES FOR EXCESS UTILIZATION OF TRANSMISSION CAPACITY | 5 |
| 5. DUE DATE FOR PAYMENT OF TTSC BILL | 10 |
| 6. LATE PAYMENT SURCHARGE..... | 10 |
| 7. SHORT TERM OPEN ACCESS CHARGES | 10 |
| 8. PAYMENT SECURITY MECHANISM..... | 11 |
| 9. PROCEDURE OF PAYMENT DISBURSEMENT IN CASE OF SHORTFALL 13 | |
| 10. HANDLING DEFAULT AND DISPUTES..... | 13 |
| 11. GENERAL PROCEDURE FOR BILLING AND PAYMENT | 14 |
| 12. NODAL OFFICER | 15 |
| 13. POWERS TO REVIEW..... | 15 |

PROCEDURE FOR SETTLEMENT OF INTRA-STATE TRANSMISSION CHARGES

1. Background

1.1 The Commission has issued an Order on June 27, 2006 in the matter of development of Transmission Pricing Framework for the State of Maharashtra and other related matters (Case 58 of 2005). As per clause 4.2 of the said Order, the Commission is required to determine Transmission Tariff to be applicable for use of Intra-State Transmission system (InSTS) in accordance with the principles outlined under said Order. The relevant extract of the said Order is as under:-

- 4.2.1 Intra-State transmission system shall comprise composite transmission network of MSETCL, TPC, REL and any other transmission licensee, in future.*
- 4.2.2 Each transmission licensee including existing transmission licensees (i.e. MSETCL, TPC and REL) shall submit its ARR Petition to the Commission in accordance with the MERC (Terms and conditions of Tariff) Regulations, 2005 and seek its approval thereof.*
- 4.2.3 Aggregate of Annual Revenue Requirement of all licensees, as approved by the Commission, shall form "Pooled Cost" (or hereinafter termed as "Total Transmission System Cost – TTSC) of the intra-State transmission system, to be recovered from the Transmission System Users (TSUs).*
- 4.2.4 The 'Base Transmission Capacity Rights' for 'capacity utilisation' shall be denominated in terms of 'kW'. The TTSC shall be shared amongst the TSUs based on the 'contribution to co-incident peak demand' (CPD) by each TSU. However, the Commission recognises that until adequate metering arrangement is put in place, it may not be possible to ascertain 'CPD' by various TSUs. Hence, for FY2006-07, until adequate metering arrangement is put in place transmission tariff shall be based on share of 'peak demand' of concerned TSU during each month of the previous year. For this purpose, average of such 12- monthly contributions to peak demand by each TSU shall form basis for arriving at 'Base TCR' and overall share/contribution of each TSU thereof. The Commission directs the licensees to submit data pertaining to their peak demand for consumption in their area during each month for FY2005-06 within two weeks from date of issue of this Order. Further, the Commission re-iterates that existing TSUs will have to execute Bulk Power Transmission Agreement with concerned transmission licensee in accordance with Regulation 5.1 and Regulation 5.2 of MERC (Transmission Open Access) Regulations, 2005.*
- 4.2.5 Accordingly, 'Base Transmission Tariff' for each financial year shall be derived as 'TTSC' of intra-State transmission system divided by 'Base Transmission Capacity Rights' and denominated in terms of "Rs/kW/month" or "Rs/MW/day"*

1.2 Accordingly, the Commission determined the Transmission Tariff for Intra-State Transmission System (InSTS) for FY 2013-2014 to FY 2015-16 in its Order dated May 13, 2013 in Case No. 56 of 2013. The Commission had also clarified in its Order in Case No. 56 of 2013 that, upon issuance of MYT Orders for Transmission Licensees, the TTSC and the Transmission Tariff as determined under that Order shall be amended in due course. Accordingly, the Commission has considered amending the TTSC for FY 2013-14 to FY 2015-16 in Case No. 123 of 2014 dated 14 August, 2014.

1.3 In the Tariff orders as stated above, the Commission has directed State Transmission Utility (STU) to collect Transmission Tariff from Transmission System Users (TSUs) on monthly basis at the end of each calendar month. Each Transmission Licensee, in turn, shall be entitled to recover its approved ARR from Transmission Tariff collected by STU on monthly basis at the end of each calendar month.

These Rules shall come into force from **01-09-2014**.

2. Sharing of TTSC amongst Transmission System Users (TSUs)

Maharashtra Electricity Regulatory Commission (MERC) has laid down the principles and procedure for sharing of Total Transmission System Cost (TTSC) amongst the long-term transmission system users comprising of distribution licensees such as MSEDCL, TPC-D, REL-D, and BEST-D in its tariff Orders as stated in paragraph **1.2** above. The methodology for disbursement of these charges to each transmission licensee (such as MSETCL, TPC-T, REL-T, JPTL, APML & MEGPTCL) is also explained. State Transmission Utility (STU) is directed to operate this mechanism.

Accordingly, State Transmission Utility (STU) has already started and operating this mechanism on monthly basis with effect from October 01, 2006, *i.e.* from effect of first tariff Order dated September 29, 2006 (Case No. 31 of 2006).

As per latest tariff order of the Commission dated August 14, 2014 (Case No.123 of 2014) applicable from September 01, 2014 for FY 2014-15 & shall be reviewed at the time of Annual Performance Review of transmission licensees based on the applications filed as may be filed by transmission licensees, sharing of total transmission system cost (TTSC) by distribution licensees in accordance with their contribution to coincident peak demand (**Table –I**) and receipt of transmission charges by transmission licensees covering its component of intra-State transmission charges (approved ARR) (**Table –II**) on monthly basis is illustrated in the **Table – III** below.

Table – I Transmission Charges Payable by TSUs to STU for FY 2014-2015

| Particulars | TTSC Share | | Share of avg. of CPD and NCPD | |
|-------------------------------------|------------------|---------------------------|-------------------------------|-------------|
| | Annual (` Cr) | Monthly (Rs ` / month) | (MW) | (%) |
| TSU - Distribution licensees | | | | |
| MSEDCL | 5730.99 | 477.58 | 14283 | 82.17% |
| TPC-D | 444.16 | 37.01 | 1107 | 6.37% |
| RInfra-D | 460.33 | 38.36 | 1147 | 6.60% |
| BEST-D | 338.85 | 28.24 | 845 | 4.86% |
| TOTAL | 6974.33 | 581.19 | 17382 | 100% |

Table – II Transmission Charges Payable to Transmission Licensees by STU

| Particulars | ARR Recovery for FY 2014-2015 | | |
|-------------------------------|-------------------------------|----------------------------|-----------------------------|
| | Annual (Rs Cr) | Monthly (Rs Cr / month) | Percentage Share in TTSC |
| Transmission Licensees | | | |
| MSETCL | 5101.40 | 425.12 | 73.15% |
| TPC-T | 683.45 | 56.95 | 9.80% |
| RInfra-T | 311.18 | 25.93 | 4.46% |
| JPTL | 101.73 | 8.48 | 1.46% |
| APML-T | 145.10 | 12.09 | 2.08% |
| MEGPTCL | 631.48 | 52.62 | 9.05% |
| TOTAL | 6974.33 | 581.19 | 100% |

**Table – III Monthly Settlement of Transmission Charges for FY 2014-2015
(Monthly) (Rs. Crores)**

| TSUs - Distribution Licensees | Collection Rupees Cr./ Month | Percentage % | Transmission Utilities | Share of TTSC | TTSC Disbursement Rupees |
|-------------------------------|------------------------------|--------------|------------------------|---------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| MSEDCL | 477.58 | 82.17% | MSETCL - Trans. | 73.15 | 425.12 |
| TPC-Distribution | 37.01 | 6.37% | TPC - Trans. | 9.80 | 56.95 |
| REL-Distribution | 38.36 | 6.60% | REL - Trans. | 4.46 | 25.93 |
| BEST-Distribution | 28.24 | 4.86% | JPTL | 1.46 | 8.48 |
| | | | APML-T | 2.08 | 12.09 |
| | | | MEGPTCL-T | 9.05 | 52.62 |
| TOTAL | 581.19 | 100% | TTSC (InSTS) | 100 | 581.19 |

The State Transmission Utility (STU) shall raise the monthly bills to the TSUs as per the allocation approved by the MERC based on the above principles.

3. Monthly Bill for Transmission Charges raised by STU

State Transmission Utility (STU) shall raise monthly bill for Intra-State Transmission Charges on every Transmission System User (TSU) on 1st working day of the Month (*i.e. 1st day of month or next working day in event of 1st day being weekly off or public holiday*) for the Transmission Charges of preceding month.

Monthly Transmission Charges bill shall comprise of the following components.

- a. Monthly share of Total Transmission System Cost (TTSC) approved by the Commission for the billing period in line with the column 2 of the **Table – III** above for current FY.
- b. Additional penal charges for excess utilization of transmission capacity
(As discussed in section 4. below)
- c. Late payment surcharge
- d. Outstanding amounts (Arrears)

Short Term Open Access Charges are being handled separately by MSLDC.

4. Additional Penal Charges for excess utilization of Transmission Capacity

- 4.1** The Commission in its order for determination of Intra-State Transmission tariff has directed that,

"38. The above transmission charges are payable by all long-term TSUs users irrespective of their actual utilisation (peak demand) recorded during the period of operation. In case actual utilisation of transmission capacity by any long-term TSU differs from the allocated transmission capacity (*i.e.*, Base TCR), it shall be governed as per Regulation 66.4 of the MYT Regulations, which reads as follows:

"66.4 The charges for intra State transmission usage shall be shared among various TSUs in the following manner:

- a) Existing long term TSU with recorded demand upto Base TCR (*i.e.*, average of CPD and NCPD) shall not be subjected to payment of short term transmission charges.*

b) Long term TSU with recorded demand greater than Base TCR but lower than Contracted Capacity shall make payment of short term Transmission charges for the recorded demand in excess of Base TCR.

c) Where the recorded demand of long term TSU is greater than Contracted Capacity (termed as Transmission Capacity Right - TCR), the TSU shall bear additional transmission charges as specified in MERC (Transmission Open Access) Regulations, 2005, as amended from time to time:

Provided that short term transmission charges and additional transmission charges, if payable or paid, as applicable in accordance with the clauses (a), (b) and (c) above, by long term TSUs, shall be adjusted during subsequent billing period upon availability of information regarding actual recorded demand by such long term TSUs."

MERC (Multiyear Tariff) Regulation 2011 under Regulation 68, **"Payment Modalities and Payment Security"** states that,

" 68.1 State Transmission Utility (STU) shall raise monthly bill for Intra-State Transmission Charges on every Transmission System User (TSU) on 1st working day of the Month for the Transmission Charges of preceding month.

68.2 The monthly bill for transmission Tariff for each calendar month shall be payable on 14th day of subsequent calendar month by the TSUs.

68.3 All TSUs shall ensure timely payment of Transmission Tariff to STU so as to enable STU to make timely settlement of claims raised by transmission licensees. month.

68.4 Where there is delay in payment by any TSU, late payment surcharge at the rate of 1.25% per month or part thereof shall be applicable.

MERC (Transmission Open Access) Regulation 2014 under Regulation 18, **"Transmission Charges"** states that,

18.5 A Transmission System User shall also be liable to pay an additional Regulatory charge at the rate of twenty five (25) per cent of the transmission charges for the use of an intra-State transmission system which is in excess of the transmission capacity rights allotted to such user.

18.6. Such consumers who have supply contract with Distribution Licensee, however, connected to Intra-State Transmission System are also required to pay Cross Subsidy Surcharge.

18.7. The amount so collected by way of Regulatory charge in accordance with Regulation 18.5 above shall be utilised by the Transmission Licensee to reduce the transmission charges payable by Transmission System Users.

18.8. A Transmission System User shall not be entitled to a refund of the transmission charges paid for capacity rights not utilized by such user.

18.9. The Open Access user shall pay the relevant charges as per the Commission's SLDC Budget Order issued from time to time in accordance with MERC (MYT) Regulations, 2011, as amended from time to time.

18.10. The existing Intra-State Transmission System Open Access consumers shall pay charges as determined by the Commission from time to time.

- 4.2** The Commission in its orders for determination of tariff for FY 2006-07, 2007-08, 2008-09, 2009-10, 2010-11, 2011-12, 2012-13 & 2014-15 has approved "Base Transmission Capacity" based on average coincident/non-coincident peak demand of Transmission System Users for use of Intra-State Transmission System by various TSUs (distribution licensees), based on average Coincident/Non-coincident Peak Demand for preceding 12 months and ARR approved by the Commission for all the six transmission licensees in the State i.e. MSETCL, TPC-T, REL-T, JPTL, APML & MEGPTCL forming total transmission system cost (TTSC) is taken for determination of transmission tariff for use of intra-State Transmission System. Accordingly transmission tariff for FY 2014-15 is as per **Table – IV** below:

Table - IV

| Item Description | Unit | Value |
|---|-------------|-------------|
| Total Transmission System Cost (TTSC) | Rs. Cr. | 6974.33 |
| Base Transmission Capacity Utilisation - Average Coincident Peak Demand (CPD) | MW | 16959 |
| Transmission Tariff (Long Term / Medium Term) | Rs/kW/Month | 342.70 |
| Transmission Tariff (Short Term / Collective / Renewable Energy) | Rs/kWh | 0.46 |

Table:-V

| Base Transmission Capacity Allotment by MERC for various TSU's | | | | | |
|---|------------------------|-------------------------|-------------------------|----------------------|-----------------------|
| YEAR | MSEDCL (MW) | TPC - D (MW) | RIL - D (MW) | BEST (MW) | STATE (MW) |
| FY 2006-07 | 9563 | 458 | 1291 | 774 | 12086 |
| FY 2007-08 | 9588 | 353 | 1245 | 641 | 11827 |
| FY 2008-09 | 9898 | 358 | 1228 | 601 | 12085 |
| FY 2009-10 | 10631 | 347 | 1314 | 656 | 12948 |
| FY 2010-11 | 11057 | 505 | 1221 | 646 | 13429 |
| FY 2011-12 | 12779 | 1013 | 1036 | 806 | 15634 |
| FY 2013-14 | 13210 | 1107 | 1013 | 808 | 16137 |
| FY 2014-15 | 13573 | 1052 | 1090 | 803 | 16517 |

4.3 For the purpose of levying '**Additional Penal Charges**' for excess utilization of transmission capacity as per MERC (Transmission Open Access) Regulation 2014; '**Allotted Transmission Capacity Rights**' of each Transmission System User (TSU)/Distribution licensee needs to be finalized and each Transmission System User has to enter into a Bulk Power Transmission Agreement (BPTA) with the Transmission Licensee for use of Intra-State Transmission System.

The '**Allotted Transmission Capacity Rights**' shall be finalized in accordance with regulation 5.2 of "MERC (Transmission Open Access) Regulations 2014" which is reproduced below.

" 5.2 A Transmission System User under Regulation 5.1 above shall be deemed to have transmission capacity rights in an intra-State transmission system equivalent to the total generation capacity contracted or otherwise arranged, with the approval of the Commission, by such Transmission System User as at the date of notification of these Regulations for injection into such transmission system:

Provided that the duration of such transmission capacity rights as at the date of notification of these Regulations shall be the remainder of the period of the contract or arrangement under which such generating capacity is procured by the Transmission System User:

Provided further that a Transmission System User under the first proviso to Regulation 5.1 above shall be deemed to have transmission capacity rights in an intra-State transmission system equivalent to the generation capacity allocated to such a Transmission System User under the terms of the transfer scheme and for the duration comprised therein:

Provided also that where a Transmission Licensee is undertaking system strengthening in order to meet a Transmission System User's future requirement as at the date of notification of these Regulations, then such Transmission System User shall be entitled to be allocated the transmission capacity rights over the capacity created as a result of such system strengthening, upon such capacity becoming available."

4.4 As on the date no "Allotted Transmission Capacity Rights" are allocated to any of the existing Transmission System User (TSU). Though the above regulation provides guidelines for allocation of Transmission Capacity Right, the consideration of the following is required on existing and proposed mechanism as below:

1. The Transmission System User (TSU) may always draw more power over and above the schedule if Grid Conditions permit. As a matter of fact such deviations in drawal by any Transmission System User (TSU) because of valid reasons are encouraged in any loose power pool.
2. If additionally penal charges are levied on such excess usages of the Transmission System, the merit order dispatch shall be disturbed as also there will be chances of double payment since the Transmission System User (TSU) is already paying UI Charges on deviation of schedule of Generation and Drawl.
3. Only the incremental loss accrued because of such usages of Transmission System may be paid by defaulting Transmission System Users (TSUs).
4. No additional Transmission Charges may therefore be levied on excess usage of Transmission system.

4.5 It is therefore proposed to review the penalty mechanism on Transmission capacity utilization as below:

1. MSLDC shall operate day ahead scheduling mechanism as per principles laid down in the order of Implementation of ABT regime.
2. Penalty at the rate of incremental loss, which as per international practice is two times of the Transmission losses shall be levied on excess utilization in MW, during particular time Block from the Transmission System User.
3. Penalty recovered as above shall be adjusted to remaining TSUs.

-
4. This mechanism can be implemented only after receipt of all periodical data required for Balancing and settlement mechanism to be operated by MSLDC, which can be made available only after completion of ABT metering programme and placing data communication system and software in service.

5. Due Date for Payment of TTSC Bill

All the payments related to transmission charge for a particular calendar month shall be due for payment on 14th day of subsequent calendar month. (MERC order dated October 10, 2007 in case No. 13 of 2007 & Order dated May 13, 2013 in case No. 56 of 2013 and Order dated 14 August, 2014 in case No.123 of 2014)

Accordingly the bill raised on 1st working day of the month as stated in section 3 above shall be due for payment on or before 14th day of that particular month.

In case due date falls on Bank holiday, the payment shall be made on next working day.

6. Late Payment Surcharge

All transmission system users shall ensure timely payment of Transmission Tariff to STU so as to enable STU to make timely settlement of claims raised by transmission licensees. In case there is delay in payment by any TSU, late payment surcharge at the rate of 1.25% per month or part thereof shall be applicable.

The penal charge of 1.25% per month shall be levied proportionately to the number of days of delay in making the payment after due date of TTSC bill, inclusive the date of payment and the same shall be computed in the following manner:

$$\text{Late Payment Surcharge} = \text{Bill Amount} \times 1.25\% \times \text{No. of days of Delay} \div \text{No. of days in the month}$$

The charges related to the late payment surcharge in any month shall be recovered from the TSUs from the immediate next monthly bill i.e. late payment surcharge for M0 month shall be included in the monthly bill for the M1 month.

7. Short Term Open Access Charges

MERC order for Development of 'Transmission Pricing Framework' for the State of Maharashtra and other related matters (Case no. 58 of 2005) states that,

"3.2.5.3 SLDC shall act as 'nodal agency' for grant of short term open access to short term transmission system users, in consultation with STU. The short term open

access shall be permitted only if request can be accommodated by utilising (a) inherent design margins (b) margins available due to variations in power flows and (c) margins available due to in-built spare transmission capacity created to cater to future demand growth"

"3.2.5.7 The SLDC shall formulate detailed procedure for grant short term open access within two months from date of issue of this Order."

Accordingly the Short Term Open Access (STOA) Charges are being recovered separately by the MSLDC as and when the transactions take place and in line with the provisions of the MERC (Transmission Open Access) Regulations, 2005 and the procedure defined by the MSLDC.

These charges collected by MSLDC are being transferred to the concerned Transmission Licensee by MSLDC in line with the clause 3.2.5.6 of the order for Development of 'Transmission Pricing Framework' for the State of Maharashtra and other related matters (Case no. 58 of 2005) which states that,

"3.2.5.6 The transmission charge in case of short term transmission open access transactions shall be denominated in Rs/MW/day or Rs/MW/Hr and shall be 25% of that applicable for long term transmission open access transactions. The short term transmission charges shall be payable for minimum 6 hours duration within a day and shall be accordingly 1/4th of short term transmission open access charge per day. The recovery from short term transmission open access charges shall be used to reduce total transmission system charge (TTSC) for the intra-State transmission system and in turn benefit long term transmission system users."

- 7.1** The MSLDC shall collect the charges for the short term open access transactions and shall deposit the same in the account of Transmission Licensee in the respective Financial Year.
- 7.2** The Transmission Licensee shall show these charges as excess revenue earned in the truing up of that year in annual APR/ARR petition submitted to MERC.
- 7.3** The settlement of the charges shall be done by Commission during truing up exercise for the year.

8. Payment Security Mechanism

8.1 Letter of Credit

The Transmission System User (TSU) shall provide an Irrevocable Revolving Letter of Credit (LC) for the full amount equivalent to two month Total Transmission Charge (TTSC) payable by the Transmission System User (TSU), preferably an average of last three months bill paid in favour of the State Transmission Utility (STU) with a

term of one year but revolving for the full term of this arrangement. The terms and conditions of LC shall be as decided by the State Transmission Utility (STU) from time to time. Later the amount of LC shall be enhanced or reduced based on the average monthly billing for the Transmission System User (TSU).

The Letter of Credit shall be generally valid for the period starting from 1st April 2013 of the year to 31st March of next year.

In case of non-payment of monthly Transmission charges on or before due date as per section 5 of these procedures by any Transmission system user, the letter of credit provided by him shall be encashed after 7 (seven) clear days from due date of payment. (i.e. if due date of payment is 14th of a month, the letter of credit shall be operated on 21st of that month in case of non-payment of bill and so.)

The late payment surcharge as per section 6 above for the delay in payment shall be included in the next month bill.

The Transmission System User (TSU) shall ensure to renew / re-establish the letter of credit (LC) before the date of its expiry.

In case of the encashment the letter of credit (LC) by State Transmission Utility (STU) in instances of default by Transmission System User (TSU), it shall be the responsibility of the Transmission System User (TSU) to replenish/reinstate the letter of credit (LC) to the original level within 15 days of such encashment.

The Letter of Credit to be opened by Long Term Transmission Customer to MSETCL/STU shall be issued by

- i) A Public Sector Bank or
 - ii) Scheduled Indian Bank having paid up capital (net of accumulated losses) of Rs.100 crore or above (duly supported by latest annual report) and also satisfying the minimum capital adequacy requirement
- or
- iii) Any foreign Bank with overall International corporate rating or rating of long term debt not less than A – (A minus) or equivalent by reputed rating agency.

The amount for the letter of credit (LC) shall be reviewed periodically in the monthly Grid Coordination Committee (GCC) meeting by State Transmission Utility (STU) and changed in case of revision in the charges by MERC or change in the average billing of the State Transmission Utility (STU).

12. Nodal Officer

Each Transmission System User (TSU) will nominate a single person as a Nodal Officer, who shall be authorised to receive the bills and attend to any issues relating to the monthly billing on behalf of the TSU.

He shall be authorised to receive any notices or any other correspondence from the STU and respond to the same on behalf of the TSU.

He shall be the single point of contact for STU on all matters relating to the monthly billing.

Each Transmission Licensee shall nominate a single person as an authorised representative who shall be authorised to issue the monthly bills and attend to any issues relating to the monthly billing.

Superintending Engineer, R & C (STU) shall be a nodal officer on behalf of the State Transmission Utility (STU) to issue the bills and respond to any queries raised by the TSU or Transmission Licensees relating to the monthly bills.

Chief Engineer (STU) shall be the authorised person on behalf of the State Transmission Utility (STU) to resolve the disputes by the TSU or Transmission Licensees relating to the monthly bills if any as per section 10 above.

13. Powers to Review

These procedures and rules shall be reviewed by the Grid Co-ordination Committee (GCC) whenever required and shall be modified accordingly.

Procedure for Grant of Medium Term Open Access

In accordance with the
Maharashtra Electricity Regulatory Commission
(Transmission Open Access) Regulations, 2014



Prepared by

STATE TRANSMISSION UTILITY
MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

SEPTEMBER - 2015

TABLE OF CONTENTS

| | |
|--|---|
| 1. OUTLINE | 2 |
| 2. GRANT OF MEDIUM TERM OPEN ACCESS..... | 3 |
| 3. CANCELLATION OF MEDIUM TERM OPEN ACCESS | 5 |
| 4. ALLOTMENT PRIORITY | 6 |
| 5. SCHEDULING OF MEDIUM TERM OPEN ACCESS TRANSACTION | 6 |
| 6. EXIT/DOWNSIZING | 7 |
| 7. FLEXIBILITY TO CHANGE POINT OF CONNECTION | 7 |
| 8. METERING AND COMMUNICATION..... | 8 |
| 9. GENERAL..... | 8 |
| APPLICATIONS AND FORMATS..... | 9 |

PROCEDURE FOR GRANT OF MEDIUM TERM OPEN ACCESS TO INSTS

1. OUTLINE

- 1.1 This Procedure is in accordance with the various provisions of the "Maharashtra Electricity Regulatory Commission (Transmission Open Access) Regulations, 2014 hereinafter referred to as "the Regulations". This procedure is to be read in conjunction with the Regulations.
- 1.2 This Procedure shall apply to the Applications made for Medium Term Open Access (MTOA) to the transmission lines or associated facilities of the intra-State transmission system (InSTS), received by the State Transmission Utility (STU) on or after the date notified by the Commission of coming into force of the Regulations.
- 1.3 The nodal agency for grant of MTOA shall be the STU i.e. Maharashtra State Electricity Transmission Company Limited.
- 1.4 The start date of the Medium-term Open Access shall not be earlier than 5 months and not later than 1 year from the last day of the month in which application has been made.

For example, application for grant of Open Access commencing for 1st January shall be received not before 31st day of July of the previous year. Similarly, the application for grant of Open Access if submitted on 31st day of July of the previous year shall not be for a period commencing 1st August of the subsequent year.
- 1.5 MTOA is the right to use the InSTS for any period exceeding three months but not exceeding three years.
- 1.6 Before applying for MTOA, the applicant should be already connected to the system or shall have a valid Grid Connectivity either from STU or CTU, for both point of injection and for point of drawal.
- 1.7 Where capacity is available in the Intra-State Transmission System, the Nodal agency shall consider applications for Open Access on a "first come, first served" basis. Where two or more applications are received on the same day an application for longer duration shall take precedence over an application for a shorter duration of access to the Intra-State Transmission System. Provided that two or more applications for the same duration of access received on the same day shall be treated *pari passu* for allotment of transmission capacity rights and in case of insufficient available capacity to accommodate all applications, the applicants shall be allotted a pro rata share in the available capacity proportionate to the capacities applied for.
- 1.8 After receipt of application, any change either in timeframe, drawl/injection point or increase in quantum of power by more than 10% shall require submission of a fresh application and the already made application shall stand disposed off and its application fees forfeited.
- 1.9 Medium-term Open Access shall be granted if the resultant power flow can be accommodated in the existing transmission system or the transmission system under execution and likely to be available from the intended date of MTOA.

-
- 1.10 No augmentation or any reconfiguration or any switching operation shall be carried out to the transmission system for the sole purpose of granting Medium term Open access. The construction of a dedicated transmission line shall not be construed as augmentation of the transmission system for the purpose of this Regulation. In case of delay in commissioning of transmission system under execution considered for such grant of access, due to any reasons beyond the control of the STU, STU shall not be responsible for making any alternate arrangements to accommodate the resultant power flow.
 - 1.11 Where transmission capacity rights have been allotted to an applicant in accordance with the Regulations, the applicant shall, to the extent of the transmission capacity rights so allotted and subject to the limitations specified in the Regulations and in the State Grid Code, rank pari passu with all other Transmission System Users as regards access to the Intra-State Transmission System of the Transmission Licensee.
 - 1.12 Applicant shall enter into a Bulk Power Transmission Agreement (BPTA) with STU for access to and use of the Intra-State Transmission System of the STU, once the Access is granted. In case the Access is granted on the InSTS of a transmission licensee other than STU, a Tripartite Agreement shall be executed between Applicant, STU and the concerned Transmission Licensee.
 - 1.13 On expiry of the period of the Medium-term Open Access, the consumer shall not be entitled to any overriding preference for renewal of the term.

2. GRANT OF MEDIUM TERM OPEN ACCESS

- 2.1. The application for Grant of Medium Term Open Access to InSTS should be submitted in a sealed envelope with "Application for Grant of MTOA" clearly marked on the envelope. The application shall be addressed to:

The Chief Engineer (STU)
Maharashtra State Electricity Transmission Company Ltd.
5th Floor, A-Wing, Prakashganga,
E-Block, Plot No. C-19,
Bandra Kurla Complex, Bandra (E),
Mumbai – 400 051.
Maharashtra.
Fax: 022-2659 1222.

- 2.2. The application for Grant of Medium Term Open Access to InSTS shall be made as per the application format for connectivity (**FORMAT: A – 2**) and shall contain details such as, Point of Injection and Drawal of power, Details of PPA, quantum of power to be injected and drawn, status of project i.e. existing/proposed/under-construction, timelines for completion of the project, period for which open access is required along with dates, etc. The application shall be accompanied by an Affidavit as per the **FORMAT: AFFIDAVIT – 2**.

2.3. The Application shall be accompanied by a non-refundable processing fee of Rs. 1.0 Lakhs (One Lakh Rupees Only) per application as specified in the Regulations.

2.4 Application fees are to be paid through DD or directly credited to MAHATRANSCO Account electronically through RTGS (Real-time gross settlement) as per details given below:

- Payee: Maharashtra State Electricity Transmission Company Ltd.
- Name of Bank : Bank of India
- Branch : Mumbai Large Corporate Branch
- IFSC : BKID0000160
- A/c No. : 016020110000120

Provided that proof of payment directly credited to above MAHATRANSCO account must be attached with the application. The Demand Draft shall be in favour of Maharashtra State Electricity Transmission Company Ltd. payable at Mumbai.

2.5 An incomplete Application, and/or an Application not found to be in conformity with these Procedures and Regulations, shall be rejected.

2.6 The following documents are to be submitted along with the application for grant of MTOA:

- Copy of PPA or Sale/Purchase Agreement (with power purchase rate mentioned)
- If projects are already connected to the system, document certifying physical interconnection with the InSTS or distribution system.
- Certificate from the concerned Transmission/Distribution Licensee towards existence of infrastructure necessary for 15 minute time-block-wise energy metering and accounting in accordance with the provisions of State grid code in force.
- Certificate from the concerned SLDC towards Real Time Visibility of generation.
- Certificate towards Commercial Operation Date (COD) prior scheduling date or commencement date of access (in case of existing projects).
- If the projects are not presently connected either to InSTS or distribution system, document confirming commissioning of physical interconnection with InSTS or distribution system before intended date of availing Open Access. This document shall be certified by the concerned Transmission/Distribution Licensee.
- If the point of injection and/or drawal is within distribution system, consent from the concerned Distribution Licensee.

2.7 In case, the injection and/or drawal point is with the ISTS network i.e. to the network of CTU or any other transmission licensee holding license from CERC) and the applicant intends to use InSTS, the proposal shall be processed as per CERC Regulations and respective amendments. The consent shall be issued within 10 working days from the date of receipt of the application or date of receipt of all the required documents, mentioned at clause 2.6 above. In such case, consent from

the concerned STU and copy of application made to CTU for MTOA is to be submitted along with the application.

- 2.8 The application for grant of Medium Term Open Access shall be processed in consultation and co-ordination with the concerned transmission and/or distribution licensee and the applicant shall be intimated about grant or refusal of the access within 20 working days from the receipt of application. In case of refusal of the access and/or if the access can be granted for period less than sought by the applicant, STU shall intimate the reasons for the same to the applicant while granting access.
- 2.9 The letter towards Grant of Medium Term Open Access issued by STU shall be as per **FORMAT: MTOA – 1**. In this letter the details viz. Point of Injection, Point of Drawal, Date of commencement and end of Access, any dedicated transmission infrastructure needed and bank guarantee amount to be submitted to STU, along with other terms and conditions.
- 2.10 It is mandatory that within 60 days from the date of grant of MTOA, the applicant shall sign a Bulk Power Transmission Agreement (BPTA) with STU. In case, the transmission network of transmission licensee other than STU is being utilized, a tripartite BPTA shall be executed between Applicant, STU and the concerned transmission licensee.
- 2.11 Within 60 days from the grant of MTOA, the applicant shall furnish a Bank Guarantee in favour of “Maharashtra State Electricity Transmission company Limited” equivalent to 105 % of the average monthly transmission charges. The bank guarantee shall be as per **FORMAT: BG – 1**. The said bank guarantee shall be valid for the total period of access.
- 2.12 Applicant shall furnish Letter of Credit as per **FORMAT: LC – 1**, equivalent to estimated transmission charges of TWO months, 30 days before commencement of MTOA period. The Letter of Credit shall be in favour of “Maharashtra State Electricity Transmission Company Limited”. The said letter of credit shall be valid for the total period of access up to TWO (2) months after to the expiry date of MTOA. The estimated average transmission charges would be reviewed every six months/MTOA period whichever is less and accordingly the amount of Letter of Credit would be enhanced/reduced by the applicant.

3. CANCELLATION OF MEDIUM TERM OPEN ACCESS

- 3.1. In case, if there is delay in utilizing the MTOA, the applicant may intimate the STU about the same along with the reasons for such delay, however, such delay shall not be more than SIX months from the date of commencement of access. In such case, 10 % of bank guarantee per month shall be encashed by the STU. If the delay persists more than six months from the date of commencement of access, the MTOA shall be cancelled.
- 3.2. If due to any reason, the open access is not availed by the applicant and consumer has also not intimated the STU for not availing the open access with valid reason

within SIX months from the date of commencement of the access, STU shall encash the Bank Guarantee and the MTOA granted shall stand cancelled. In such case, if required, the applicant may apply afresh for the grant of MTOA which shall be processed in accordance to the regulations.

- 3.3. For any other reasons such as non-payment of the charges applicable under the provisions of the Regulations, the application and the access shall be cancelled as per clause no. 3.2 above.
- 3.4. In case of cancellation of the access or application, the applicant may apply afresh which shall be processed according to the provisions of the Regulations.
- 3.5. Before cancellation of the access or application, the applicant shall be intimated to submit the compliance and if the compliance not found satisfactory, the application or access shall be cancelled.

4. ALLOTMENT PRIORITY

- 4.1. A distribution licensee shall have highest priority in allotment of open access irrespective of type of open access.
- 4.2. The priority of grant of Medium Term Open Access shall be followed by the Long Term Open Access applicants and shall be preceded by the Short Term Open Access Applicants.
- 4.3. When the capacity requirement projected by an applicant is more than the available transmission capacity and the said applicant is not able to limit his requirement to the available capacity, the request of applicant having next lower priority shall be taken up for consideration.

5. SCHEDULING OF MEDIUM TERM OPEN ACCESS TRANSACTION

- 5.1. The scheduling jurisdiction and procedure, curtailment and revision of schedule of MTOA transactions, metering, energy accounting and accounting of (Unscheduled Interchange) UI charges shall be as per the Regulations and the Indian Electricity Grid Code, as amended from time to time. While scheduling on day-ahead basis, long-term access customers would have the highest priority, followed by medium term customers and then followed by short-term customers.
- 5.2. All the generating plants (irrespective of installed capacity) and bulk consumers (having load above 1 MW) shall have to be scheduled by the concerned SLDC. However, the Renewable Energy generating projects, being identified as 'Non-firm power' by the commission, shall be governed by the provisions for scheduling laid down by the Commission time to time.

5.3. Underutilization of transmission capacity:

In case it is observed by SLDC that the MTOA customer request for scheduling is consistently (for more than 5 days) lower than the capacity granted by the Nodal Agency (i.e. STU), SLDC may issue a notice to such MTOA customer asking the reasons for such under-utilization. The MTOA customer shall furnish the reasons for such under-utilization and will provide such details like the reduced requirement, likely period, etc. by the following day. The un-utilized transfer capability will then be released for scheduling of Short-term open access transaction. No refund of transmission charges shall be made due to such curtailment.

6. EXIT/DOWNSIZING

- 6.1 A customer who has been granted MTOA, may relinquish rights, fully or partly, by giving at least 30 days prior notice to the nodal agency, provided that the medium-term customer relinquishing its rights shall pay applicable transmission charges for the quantum of relinquishment, for the period of relinquishment or 30 days whichever is lesser. Further, the above compensation paid by medium-term customer shall be used for reducing transmission charges payable by other long-term customers and medium-term customers in the year in which such compensation payment is due in the ratio of transmission charges payable for that year by such long term customers and medium-term customers.
- 6.2 Once downsizing request has been accepted by STU, an intimation of MTOA for the reduced power shall be issued and the same shall be informed to Applicant, concerned SLDC and CTU. Any increase thereafter, either in timeframe or quantum shall require submission of a fresh application.

7. FLEXIBILITY TO CHANGE POINT OF CONNECTION

- 7.1. A Medium Term consumer availing open access for full ONE year, may change the point of injection/drawal twice within the access period, which shall be considered subject to feasibility.
- 7.2. The application by the existing open access consumer for change of point of injection and/or drawal shall be submitted to STU 03 months in advance, before implementation of such change.
- 7.3. The 2nd change of point of injection/drawal would be considered only after lapse of six months from the firsts change being made effective.
- 7.4. The change of point of injection/drawal shall be considered only if there is no change in quantum of power to be transacted under Open Access.
- 7.5. For the change in point of injection/drawal, the open access consumer shall apply to STU along with the processing fee as per clause no. 2.3 and 2.4.

8. METERING AND COMMUNICATION

- 8.1. It is mandatory on the applicant to install Special Energy Meters capable of time differentiated measurements for time-block-wise active energy and voltage differentiated measurement of reactive energy in accordance with State Grid Code.
- 8.2. All the Open Access consumers shall abide by the metering standards of CEA and all the interface points and/or metering points in the Intra-State Transmission System shall comply with the State Metering Code. In case such interface and/or metering points are not defined in the State Metering Code shall be defined by the SLDC to facilitate State Energy Accounting for the State.
- 8.3. The Open Access Consumer shall ensure visibility of generation to SLDC for real time monitoring and on-line communication of energy meter data for energy accounting.
- 8.4. The Special Energy Meters and RTU-DC shall be open for inspection by any person authorized by the nodal agency and/or SLDC.
- 8.5. The Open Access consumer shall bear the cost towards Special Meters, on-line communication of data & Visibility of generation to SLDC.

9. GENERAL

- 9.1 The applicant shall keep the nodal agency and SLDC indemnified at all times and shall undertake to indemnify, defend and keep the nodal agency and SLDC harmless from any and all damages, losses, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the long-term access transaction.
- 9.2 All costs/expenses/charges associated with the application, including bank draft, bank guarantee, letter of credit etc. shall be borne by the applicant.
- 9.3 The applicant shall abide by the provisions of the Electricity Act, 2003, the Regulations and Indian Electricity Grid Code, as amended from time to time.
- 9.4 This procedure aims at easy and pragmatic disposal of applications made for Medium Term Open Access in InSTS. However, some teething problems may still be experienced. The various implications would be known only after practical experience is gained by way of implementing these procedures. In order to resolve the same, this procedure shall be reviewed or revised by the Nodal agency with prior approval of MERC.
- 9.5 All complaints regarding unfair practices, delays, discrimination, lack of information, supply of wrong information or any other matter related to Medium-term Open access in InSTS shall be directed to MERC for redressal.

APPLICATIONS AND FORMATS

On Non Judicial Stamp paper of Rs.100/-

AFFIDAVIT

In the matter of filing application to Maharashtra State Electricity Transmission Company Ltd., for grant of Medium Term Open Access/Long Term Access under MERC (Transmission Open Access) Regulations 2014.

I.....(Name).....S/o Shri(Father's name)... working as (Post)..... in(name of the Company).....,having its registered office at (address of the company)....., do solemnly affirm and say as follows:

- 1) I am the (Post)..... of(Name of the Company)....., the representative in the above matter and am duly authorized to file the above application and to make this affidavit.
- 2) I submit that M/s.....(name of the company)..... is a registered company(Public Ltd/Pvt. Ltd.)..... Registered under Companies Act. Under the Article of Association of the Company and in accordance with the provisions of Electricity Act, 2003/relevant Regulation(s) of MERC, the company can file the enclosed application.
- 3) I submit that all the details given in the enclosed application for grant of Medium Term Open Access/Long Term Access along with necessary documents are true and correct and nothing material has been concealed thereof.

(Signature)
Name of the Applicant

Date:

Place:

(To be duly attested by Notary)

APPLICATION FOR GRANT OF MEDIUM TERM OPEN ACCESS

| | | |
|---|---|--|
| 1 | Name of the applicant applying for Medium Term Open Access on intra-state transmission system | |
| 2 | Address for correspondence | |
| 3 | Details of Authorized Contact Person for communication | |
| | Name | |
| | Designation | |
| | Phone Number | |
| | Mobile Number | |
| | Fax Number | |
| | E-Mail ID | |
| | Details of Authorized Contact Person for Scheduling | |
| | Name | |
| | Designation | |
| | Phone Number | |
| | Mobile Number | |
| | Fax Number | |
| | E-Mail ID | |
| 4 | Nature of Applicant | |
| | Normal Generator (other than Captive) | |
| | Captive Generator | |
| | Bulk Consumer | |
| | Electricity Trader | |
| | Others | |
| 5 | Quantum and Period for Medium Term Open Access | |
| | Quantum (MW) for which MTOA is required | |
| | Date from which MTOA is required | |
| | Date up to which MTOA is required | |
| | Time Block for MTOA | |
| | Total Period of MTOA | |
| 6 | Details for Injection of Power | |
| | Total Installed Capacity (MW) | |
| | Project location, Taluka, District | |
| | Specify Status of project i.e. Existing / Proposed / Under-construction | |

| | | |
|---|--|-----------------|
| | Specify whether the project is connected to Transmission system or Distribution system | |
| | Name of the transmission/Distribution licensee to which project is connected | |
| | Name of the Sub-Station or Line to which project is connected | |
| | In case, if the project is connected to the network of distribution licensee, name of EHV Sub-Station to which distribution system is connected | |
| | Attach SLD from Point of Injection up to EHV Sub-Station | |
| 7 | Details of Drawal of Power | |
| | Total Quantum of Power to be drawn (MW) | |
| | Specify Status of project i.e. Existing / Proposed / Under-construction | |
| | Specify whether the project is connected to Transmission system or Distribution system | |
| | Name of the transmission/Distribution licensee to which project is connected | |
| | Name of the Sub-Station or Line to which project is connected | |
| | In case, if the project is connected to the network of distribution licensee, name of EHV Sub-Station to which distribution system is connected | |
| | If the consumer is already a customer of distribution licensee, attach copy of latest electricity bill | <i>Attached</i> |
| | Attach SLD from Point of Drawal up to EHV Sub-Station | |
| | Whether Open Access is for PARTIAL or FULL Load (<i>In case of Partial load, attach copy of consent from concerned distribution licensee</i>) | |
| | Details of alternate arrangements in case of absence of Generation | |
| 8 | If dedicated transmission system for connecting generating plant is proposed or under-construction, specify the time frame required for completion of the same (<i>which should not be prior to date of commencement of MTOA</i>) | |
| 9 | If dedicated transmission system for connecting bulk power drawal is proposed or under-construction, specify the time frame required for completion of the same (<i>which should not be prior to date of commencement of MTOA</i>) | |

| | | |
|----|--|---|
| 10 | Enclose Progress report certified by the concerned transmission licensee | |
| 11 | Particulars of PPA/Contracts | |
| | For Power Purchase: Executed between ---- (Name of Seller)----- and ----(Name of Buyer)----- | From Date: _____ To Date: _____ Total Period: _____ (Months) |
| | For Balancing and Mismatch Power requirements: Executed between ----(Name of Seller)----- and ----(Name of Buyer)-----. | |
| 18 | Processing Fee Transaction Details | |
| | Bank Draft for Application Processing Fee | |
| | Name of Bank | |
| | Demand Draft No. & Date | |
| | Amount in Rs. | Rs.1,00,000/- (In words: One Lakhs Rupees only) |
| | Payable at Bank | |
| | If payment made through NEFT, enclosed copy of receipt | Receipt No: _____ Date: _____ |
| | | |

It is hereby certified that:

1. For the transactions, utilities (including buyer, seller and trader) shall abide by the provisions of the MERC (Transmission Open Access) Regulations, 2014 and/or MERC (Distribution Open Access) Regulations, 2014 as the case may be and its amendment from time to time.
2. The buyer and seller have entered into commercial agreement for the proposed transaction. Payment of the Medium Term Open Access charges (if not paid) shall be made by me.
3. The applicant hereby agrees to keep (Name of the Transmission licensee)..... indemnified at all times and undertakes to indemnify, defend and save the (name of the Transmission licensee)..... harmless from any and all damages, losses, claims and actions relating to injury to or death of any person or damage to property, demands, suits, recovering costs and expenses, court costs, attorney fees, and all obligations by or to third parties, arising out of or resulting from the transactions under his approval.
4. We shall execute the Bulk Power Transmission Agreement (BPTA) and submit Bank Guarantee & Letter of Credit after receiving the approval from the (Name of the Transmission licensee)..... with in the 60 days failing which (Name of the Transmission licensee)..... has right to cancel the approval without any further notice.

-
5. (*Insert in case of Intra-state Trader*)..... has a valid license (ref. no issued by and valid up to) for Intra-state Trading and will abide by MERC (Trading Licence Conditions) Regulations, 2004 and its amendment from time to time.
6. (*Insert in case of Inter-state Trader*)..... has a valid license (ref. no issued by and valid up to) for Inter-state Trading and will abide by CERC (Procedure, Terms and Conditions for grant of trading license and other related matters) Regulations, 2009 and its amendment from time to time.

Place:

Date:

Seal:

Name:

Signature of the Applicant

Designation:

On the letter head of STU

FORMAT: MTOA – 1

Intimation for Grant of Medium Term Open Access (MTOA)

M/s. (Name of Applicant).....

Address:

.....

Kind Attn: Shri.(Name of Contact Person).....

Sub: Grant of Medium Term Open Access to M/s.(Name of Applicant)..... for
MW Power in
InSTS.

Ref : 1. M/s. Application No., dtd., for grant of MTOA.

Nature of Applicant:

Normal Generator (Other than Captive)

Captive Generator

Bulk Consumer

Electricity Trader

Details of Medium Term Open Access:

Quantum (MW) of Power for which MTOA is granted:

Date from which MTOA is granted:

Date up to which MTOA is granted:

Point of Injection Details:

Name of the Generator:

Total Installed Capacity:

Project Location (Site, Taluka, District):

Name of the Transmission Licensee to which project is connected:

Point of Injection (Name of Sub-Station/Line of Transmission Licensee):

Quantum of Power (MW) to be injected for MTOA:

Point of Drawal Details:

Name of Consumer:

Total Installed Capacity of Load:

Project Location (Site, Taluka, District):

Name of the Transmission Licensee to which project is connected:

Point of Injection (Name of Sub-Station/Line of Transmission Licensee):

Quantum of Power (MW) to be injected for MTOA:

List of Documents submitted by the Applicant are...

- a.
- b.
- c.
- d.

The Medium Term Open Access shall be governed by the:

- i. Indian Electricity Act. 2003.
- ii. Indian Electricity Grid Code December 2005
- iii. MERC (Transmission Open Access) Regulation – 2014.
- iv. MERC (State Grid Code) Regulations 2006 - Part B, Part C, Part D and Part F.
- v. Amendments in regulations if any, issued by the appropriate commission at any time.

Details of Additional Documents to be submitted by the Applicant within 60 days from the date of this letter:

- a. Bulk Power Transmission Agreement (BPTA) executed between Applicant, STU and the concerned Transmission Licensee.
- b. Bank Guarantee (BG) of Rs..... Lakhs (In Words:) in favour of Maharashtra State Electricity Transmission Company Limited.

Effective date of Bank Guarante: (*Specify Date of commencement of MTOA*)....

Validity date of Bank Guarantee:(*Specify a Date TWO month before expiry of MTOA*).....

Details of Additional Documents to be submitted by the Applicant before 30 days from the date of commencement of MTOA:

- a. Letter of Credit of Rs..... Lakhs (In Words:) in favour of Maharashtra State Electricity Transmission Company Limited.

Effective date of Letter of Credit: (*Specify Date of commencement of MTOA*)....

Validity date of Letter of Credit:(*Specify a Date TWO month before expiry of MTOA*).....

Further, it is to inform you that if you fail to submit the above mentioned documents before the prescribed dates, this grant of MTOA shall stand cancelled as per the provisions of the regulations.

Thanking you.

Yours Faithfully,

Chief Engineer
State Transmission Utility

| | | |
|---|--|-----------------|
| | Specify whether the project is connected to Transmission system or Distribution system | |
| | Name of the transmission/Distribution licensee to which project is connected | |
| | Name of the Sub-Station or Line to which project is connected | |
| | In case, if the project is connected to the network of distribution licensee, name of EHV Sub-Station to which distribution system is connected | |
| | Attach SLD from Point of Injection up to EHV Sub-Station | |
| 7 | Details of Drawal of Power | |
| | Total Quantum of Power to be drawn (MW) | |
| | Specify Status of project i.e. Existing / Proposed / Under-construction | |
| | Specify whether the project is connected to Transmission system or Distribution system | |
| | Name of the transmission/Distribution licensee to which project is connected | |
| | Name of the Sub-Station or Line to which project is connected | |
| | In case, if the project is connected to the network of distribution licensee, name of EHV Sub-Station to which distribution system is connected | |
| | If the consumer is already a customer of distribution licensee, attach copy of latest electricity bill | <i>Attached</i> |
| | Attach SLD from Point of Drawal up to EHV Sub-Station | |
| | Whether Open Access is for PARTIAL or FULL Load (<i>In case of Partial load, attach copy of consent from concerned distribution licensee</i>) | |
| | Details of alternate arrangements in case of absence of Generation | |
| 8 | If dedicated transmission system for connecting generating plant is proposed or under-construction, specify the time frame required for completion of the same (<i>which should not be prior to date of commencement of MTOA</i>) | |
| 9 | If dedicated transmission system for connecting bulk power drawal is proposed or under-construction, specify the time frame required for completion of the same (<i>which should not be prior to date of commencement of MTOA</i>) | |

| | | |
|----|--|---|
| 10 | Enclose Progress report certified by the concerned transmission licensee | |
| | Particulars of PPA/Contracts | |
| 11 | For Power Purchase: Executed between ---- (Name of Seller)----- and ----(Name of Buyer)----- | From Date: _____ To Date: _____ Total Period: _____ (Months) |
| | For Balancing and Mismatch Power requirements: Executed between ----(Name of Seller)----- and ----(Name of Buyer)-----. | |
| 18 | Processing Fee Transaction Details | |
| | Bank Draft for Application Processing Fee | |
| | Name of Bank | |
| | Demand Draft No. & Date | |
| | Amount in Rs. | Rs.1,00,000/- (In words: One Lakhs Rupees only) |
| | Payable at Bank | |
| | If payment made through NEFT, enclosed copy of receipt | Receipt No: _____ Date: _____ |
| | | |

It is hereby certified that:

1. For the transactions, utilities (including buyer, seller and trader) shall abide by the provisions of the MERC (Transmission Open Access) Regulations, 2014 and/or MERC (Distribution Open Access) Regulations, 2014 as the case may be and its amendment from time to time.
2. The buyer and seller have entered into commercial agreement for the proposed transaction. Payment of the Medium Term Open Access charges (if not paid) shall be made by me.
3. The applicant hereby agrees to keep (Name of the Transmission licensee)..... indemnified at all times and undertakes to indemnify, defend and save the (name of the Transmission licensee)..... harmless from any and all damages, losses, claims and actions relating to injury to or death of any person or damage to property, demands, suits, recovering costs and expenses, court costs, attorney fees, and all obligations by or to third parties, arising out of or resulting from the transactions under his approval.
4. We shall execute the Bulk Power Transmission Agreement (BPTA) and submit Bank Guarantee & Letter of Credit after receiving the approval from the (Name of the Transmission licensee)..... with in the 60 days failing which (Name of the Transmission licensee)..... has right to cancel the approval without any further notice.

-
5. (*Insert in case of Intra-state Trader*)..... has a valid license (ref. no issued by and valid up to) for Intra-state Trading and will abide by MERC (Trading Licence Conditions) Regulations, 2004 and its amendment from time to time.
6. (*Insert in case of Inter-state Trader*)..... has a valid license (ref. no issued by and valid up to) for Inter-state Trading and will abide by CERC (Procedure, Terms and Conditions for grant of trading license and other related matters) Regulations, 2009 and its amendment from time to time.

Place:

Date:

Seal:

Name:

Signature of the Applicant

Designation:

On the letter head of STU

FORMAT: MTOA – 1

Intimation for Grant of Medium Term Open Access (MTOA)

M/s. (Name of Applicant).....

Address:

.....

Kind Attn: Shri.(Name of Contact Person).....

Sub: Grant of Medium Term Open Access to M/s.(Name of Applicant)..... for
MW Power in
InSTS.

Ref : 1. M/s. Application No., dtd., for grant of MTOA.

Nature of Applicant:

Normal Generator (Other than Captive)
Captive Generator
Bulk Consumer
Electricity Trader

Details of Medium Term Open Access:

Quantum (MW) of Power for which MTOA is granted:
Date from which MTOA is granted:
Date up to which MTOA is granted:

Point of Injection Details:

Name of the Generator:
Total Installed Capacity:
Project Location (Site, Taluka, District):
Name of the Transmission Licensee to which project is connected:
Point of Injection (Name of Sub-Station/Line of Transmission Licensee):
Quantum of Power (MW) to be injected for MTOA:

Point of Drawal Details:

Name of Consumer:
Total Installed Capacity of Load:
Project Location (Site, Taluka, District):
Name of the Transmission Licensee to which project is connected:
Point of Injection (Name of Sub-Station/Line of Transmission Licensee):
Quantum of Power (MW) to be injected for MTOA:

List of Documents submitted by the Applicant are...

- a.
- b.
- c.
- d.

The Medium Term Open Access shall be governed by the:

- i. Indian Electricity Act. 2003.
- ii. Indian Electricity Grid Code December 2005
- iii. MERC (Transmission Open Access) Regulation – 2014.
- iv. MERC (State Grid Code) Regulations 2006 - Part B, Part C, Part D and Part F.
- v. Amendments in regulations if any, issued by the appropriate commission at any time.

Details of Additional Documents to be submitted by the Applicant within 60 days from the date of this letter:

- a. Bulk Power Transmission Agreement (BPTA) executed between Applicant, STU and the concerned Transmission Licensee.
- b. Bank Guarantee (BG) of Rs..... Lakhs (In Words:) in favour of Maharashtra State Electricity Transmission Company Limited.

Effective date of Bank Guarante: (*Specify Date of commencement of MTOA*)....

Validity date of Bank Guarantee:(*Specify a Date TWO month before expiry of MTOA*).....

Details of Additional Documents to be submitted by the Applicant before 30 days from the date of commencement of MTOA:

- a. Letter of Credit of Rs..... Lakhs (In Words:) in favour of Maharashtra State Electricity Transmission Company Limited.

Effective date of Letter of Credit: (*Specify Date of commencement of MTOA*)....

Validity date of Letter of Credit:(*Specify a Date TWO month before expiry of MTOA*).....

Further, it is to inform you that if you fail to submit the above mentioned documents before the prescribed dates, this grant of MTOA shall stand cancelled as per the provisions of the regulations.

Thanking you.

Yours Faithfully,

Chief Engineer
State Transmission Utility

Commercial Terms & Conditions for the use of Intra State Transmission System (InSTS) by Long Term Open Access Consumers

1. Governing regulations for allotment of transmission capacity in intra-state transmission system through Long Term Open Access.

- a) Maharashtra Electricity Regulatory Commission (Transmission Open Access) Regulations, 2014 and the procedure specified by STU there under shall govern the allotment of transmission capacity in intra-state transmission system through Long Term Open Access.

2. Charges for access and use of intra-state transmission system

- a. The charges for the use and access of the Intra-State transmission system shall be as per "Base Transmission Tariff" for each financial year determined by MERC in the tariff order.
- b. The reactive energy exchange (import/export) shall be payable by TSU as may be determined by the MERC/CERC from time to time. The reactive energy exchange shall be accounted both at the point of injection and at point of drawal.
- c. A TSU shall not be entitled to a refund of the transmission charges for the capacity not utilized by such user.
- d. The charges for the access and use of the Intra-State transmission system shall be determined and settled on a monthly basis as per MERC order for determination of transmission tariff for the pertinent year. The bill with respect to such charges shall be dispatched by the first (01) day of each month (i.e. 1st day of month or next working day in event of 1st day being weekly off or public holiday) and shall reflect the charges determined for the preceding month.

3. Fees and Charges of SLDC

TSU shall also be required to pay for SLDC System Operation Charges proportion to the capacity allotted to such TSU.

4. Scheduling and drawal by TSU

The TSU shall abide by the Scheduling & Despatch Procedure in accordance with the Grid Code. Any un-scheduled interchange and mismatch from schedule shall be priced as specified by the Commission.

5. Unscheduled Exchange and balancing power pricing

- a. TSU shall agree unscheduled interchange during in the event of failure or forced outage of captive generator will be settled as per existing procedure of settlement code. Any deviation between scheduled drawal and actual drawal shall be subject to payment per Regulation 24 of Maharashtra Electricity Regulatory Commission (Transmission Open

Access) Regulations, 2014 and MERC (State Grid Code) Regulations, 2006 / CERC (Indian Electricity Grid Code) Regulations, 2010 by the parties concerned.

6. Surcharge

- a. TSU, if it is an existing consumer of the Distribution Licensee, shall also be required to pay to the Distribution Licensee, a surcharge as applicable from time to time.
- b. Surcharge shall also be required to be paid by the TSU if it is an existing consumer of the Distribution Licensee availing open access exclusively on the inter-state transmission system without involving intra-state transmission system.

7. Assessment of available transmission capacity

Whether the existing transmission system possesses the spare transmission capacity or is required to strengthen its transmission system, STU shall carry out requisite system studies in accordance with prescribed procedure specified by the STU under the regulations. The TSU shall accept the results of such system studies. Such studies shall be completed within 45 days from the receipt of application and the TSU shall be intimated whether Long Term Open Access is possible with/without system strengthening.

8. Non-Utilization of Long Term Open Access Capacity

- a. The TSU may surrender the capacity allotted to him as per provision in MERC (Transmission Open Access) Regulations, 2014 to STU and State Load Despatch Centre in prescribed form, if he is unable or not in position to utilize the full or substantial part of the capacity allotted to him.
- b. The TSU shall make payment for un-utilized contracted open access capacity as determined by STU from time to time based on MERC (Transmission Open Access) Regulations, 2014 and Regulations for Tariff determination prescribed by the Commission.
- c. The TSU shall also pay the Scheduling, System Operation and Load Despatch charges for un-utilized contracted open access capacity surrendered by him for the remaining period of allocation.

9. Surrender of Transmission Capacity

- a. The TSU if he so desires may surrender the whole or any part of his transmission capacity back to the STU subject to terms and conditions as may be mutually agreed upon between the TSU and the transmission licensee. However in case any transmission system has been laid or transmission system strengthening has been done to facilitate the open access, the TSU/Generator will require to pay un-recovered cost of such transmission system or transmission system strengthening as may be determined by STU.
- b. In case the TSU who is neither in position to use nor assign his allotted transmission capacity either in full or in part, the State Load Despatch Centre may re-allocate the said

unutilized allotted capacity to any other person who is eligible for open access, but only if the TSU consistently fails to schedule his drawal or dispatch schedule in accordance with the State Grid Code.

- c. Continuous non-use of allotted transmission capacity by TSU for a period of one year or more shall be deemed as automatic surrender of un-utilized and un-assigned capacity back to STU without any further action. The re-allocation of transmission capacity not utilized does not absolve the TSU of his obligation to pay the transmission charges pertaining to such un-utilized capacity.

10. Metering

- a. The meters at the point of injection and drawals shall be Special Energy Meters conforming to the specification prescribed under Maharashtra Metering Code for InSTS of Maharashtra published by STU / CEA regulation for regulating the installation and Operation of meters further metering interface point not defined in the Metering Code shall be defined by SLDC for facilitating Energy Accounting.
- b. The TSU/buyer shall allow full access to the Transmission Licensee and/or the State Load Despatch Centre for meter reading, inspection and testing of Meters.

11. Energy losses

- a. The energy losses in intra-state transmission system proportion to capacity contracted by / allotted shall be borne by the TSU. The loss percentage determined by the Commission in MYT / APR / Tariff Orders for intra-state transmission system for the applicable years and approved by the Commission shall be apportioned in proportion to the actual energy drawal by the Open Access consumers and shall be payable in kind (adjusted in energy drawal/injected in kWh terms).
- b. The monthly state energy account prepared and issued by the State Load Despatch Centre shall be binding on both parties.

12. Letter of Credit and Bank Guarantee towards Security Deposit

The Letter of Credit and the Bank Guarantee to be opened by Long Term Transmission Customer to MSETCL/STU shall be issued by

- i) A Public Sector Bank or
- ii) Scheduled Indian Bank having paid up capital(net of accumulated losses) of Rs.100 crore or above(duly supported by latest annual report) and also satisfying the minimum capital adequacy requirement

or

- iii) Any foreign Bank with overall International corporate rating or rating of long term debt not less than A – (A minus) or equivalent by reputed rating agency.

- a. TSU shall furnish a Letter of Credit / Bank Guarantee in the prescribed form and manner valid for the duration of open access towards the payment security guarantee. The amount of the security deposit shall be computed on the basis of average billing to cover the full intra-state transmission charges, for a period of 2 months and shall be valid for the term of OpenAccess granted by STU or the time period specified by STU.
- b. TSU shall arrange for extension of validity and/or enhance the value of the bank guarantee from time to time as may be required by STU.
- c. The TSU shall furnish the Letter of Credit / Bank Guarantee towards security deposits at the time of executing the BPTA but in any case before connecting to the transmission system.

13. Transmission Constraints

SLDC, subject to any technical constraint in operation of the State Grid may apply curtailment of transmission capacity in whole or part at its absolute discretions. The TSU shall abide by the instructions and directions of the SLDC in accordance with Section 32 of the Electricity Act 2003. In the event of persistent non-compliance of SLDC instructions for Grid Operation and scheduling by the TSU, the STU has the rights to revoke the capacity allotted to him in terms of MERC (Transmission Open Access) Regulations 2014

14. Compliance of Grid Code

- a. TSU agrees to comply with the State Grid Code Regulation 2006 as specified by the Commission amended from time to time. In the event of failure of TSU to comply with the provisions of the Grid Code, the Transmission Licensee has right to revoke the transmission capacity so reserved for him after serving show cause notice of 21 days and after taking requisite approval of the Commission.
- b. The TSU shall abide by the SLDC schedule and shall comply with all directions issued by SLDC.

15. Transmission Performance Standards

- a. All the equipment connected at the inter-connection point with the Intra-State Transmission System shall meet the requirement of Performance Standards specified as in clause No. 16 of State Grid Code.
- b. The TSU connected to Intra-State Transmission System shall ensure that their loads do not cause violation of these standards.

16. Curtailment Policy

The use of intra-state transmission system shall be subject to any technical constraints in the operation of the State Grid. The State Load Despatch Centre may impose curtailment as per Regulations 34 of MERC (Transmission Open Access) Regulations, 2014 or suspend whole or part of the use of the intra-state transmission system in emergency

condition for maintaining the grid security at its absolute discretion because of transmission system constraints.

17. Disputes

All differences or disputes between the parties arising out of or in connection with this agreement shall be endeavored to be settled amicably through negotiation by the STU. Failing which the same shall be referred to the MERC.

condition for maintaining the grid security at its absolute discretion because of transmission system constraints.

17. Disputes

All differences or disputes between the parties arising out of or in connection with this agreement shall be endeavored to be settled amicably through negotiation by the STU. Failing which the same shall be referred to the MERC.

Procedure for Grant of Long Term Open Access

In accordance with the
Maharashtra Electricity Regulatory Commission
(Transmission Open Access) Regulations, 2014



Prepared by

**STATE TRANSMISSION UTILITY
MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**

SEPTEMBER - 2015

TABLE OF CONTENTS

| | |
|--|----|
| 1. OUTLINE | 2 |
| 2. GRANT OF LONG TERM OPEN ACCESS | 3 |
| 3. FLEXIBILITY TO CHANGE POINT OF CONNECTION | 6 |
| 4. CANCELLATION OF LONG TERM OPEN ACCESS | 7 |
| 5. ALLOTMENT PRIORITY | 7 |
| 6. SCHEDULING OF LONG TERM OPEN ACCESS TRANSACTION | 7 |
| 7. RELINQUISHING OF ACCESS RIGHTS..... | 8 |
| 8. METERING AND COMMUNICATION | 9 |
| 9. GENERAL..... | 10 |
| APPLICATIONS AND FORMATS..... | 11 |

PROCEDURE FOR GRANT OF LONG TERM OPEN ACCESS TO INSTS

1. OUTLINE

- 1.1 This Procedure is in accordance with the various provisions of the "Maharashtra Electricity Regulatory Commission (Transmission Open Access) Regulations, 2014 hereinafter referred to as "the Regulations". This procedure is to be read in conjunction with the Regulations.
- 1.2 This Procedure shall apply to the Applications made for Long Term Open Access (LTOA) to the transmission lines or associated facilities of the intra-State transmission system (InSTS), received by the State Transmission Utility (STU) on or after the date notified by the Commission of coming into force of the Regulations.
- 1.3 The nodal agency for grant of LTOA shall be the STU i.e. Maharashtra State Electricity Transmission Company Limited.
- 1.4 LTOA is the right to use the InSTS for any period exceeding Twelve Years but not exceeding TWENTY FIVE years.
- 1.5 Before applying for LTOA, the applicant should be already connected to the system or shall have a valid Grid Connectivity either from STU or CTU, for both point of injection and for point of drawal.
- 1.6 Where capacity is available in the Intra-State Transmission System, the Nodal agency shall consider applications for Open Access on a "first come, first served" basis. Where two or more applications are received on the same day an application for longer duration shall take precedence over an application for a shorter duration of access to the Intra-State Transmission System. Provided that two or more applications for the same duration of access received on the same day shall be treated *pari passu* for allotment of transmission capacity rights and in case of insufficient available capacity to accommodate all applications, the applicants shall be allotted a *pro rata* share in the available capacity proportionate to the capacities applied for. If the applications are sent through Post, then the date of receipt of application to the office of nodal agency shall be considered as the date of application.
- 1.7 After receipt of application, any material change either in timeframe, drawl/injection point or change in quantum of power by 10 % shall require submission of a fresh application and the already made application shall stand disposed-off and its application fees forfeited. The new application shall be processed in accordance to the regulations.
- 1.8 Where transmission capacity rights have been allotted to an applicant in accordance with the Regulations, the applicant shall, to the extent of the transmission capacity rights so allotted and subject to the limitations specified in the Regulations and in the State Grid Code, rank *pari passu* with all other Transmission System Users as regards access to the Intra-State Transmission System of the Transmission Licensee.

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- 1.9 Applicant shall enter into a Bulk Power Transmission Agreement (BPTA) with STU for access to and use of the Intra-State Transmission System of the STU, once the Access is granted. In case the Access is granted on the InSTS of a transmission licensee other than STU, a Tripartite Agreement shall be executed between Applicant, STU and the concerned Transmission Licensee.
- 1.10 On expiry of the period of the Long-term Open Access, on written request from the consumer, at least SIX months before expiry of the access period, the Nodal Agency shall extend the access period as specified by the consumer. In case, no application is received by the consumer within specified time limit, the Long Term Open Access shall stand terminated up to the initial sanctioned date of expiry. In case of extension of the access period, the consumer shall amend the already submitted agreements, bank guarantees and Letter of credit etc. before expiry of the initial expiry period of access.

2. GRANT OF LONG TERM OPEN ACCESS

- 2.1. The application for Grant of Long Term Open Access to InSTS should be submitted in a sealed envelope with "Application for Grant of LTOA" clearly marked on the envelope. The application shall be addressed to:

The Chief Engineer (STU)
Maharashtra State Electricity Transmission Company Ltd.
5th Floor, A-Wing, Prakashganga,
E-Block, Plot No. C-19,
Bandra Kurla Complex, Bandra (E),
Mumbai – 400 051.
Maharashtra.
Fax: 022-2659 1222.

- 2.2. The application for Grant of Long Term Open Access to InSTS shall be made as per the application format for connectivity (**FORMAT: A – 3**) and shall contain details such as, Point of Injection and Drawal of power, Details of PPA, quantum of power to be injected and drawn, status of project i.e. existing/proposed/under-construction, timelines for completion of the project, period for which open access is required along with dates, etc. The application shall be accompanied by an Affidavit as per the **FORMAT: AFFIDAVIT – 2**.
- 2.3. Application fees are to be paid through DD or directly credited to MAHATRANSCO Account electronically through RTGS (Real-time gross settlement) as per details given below:
- Payee: Maharashtra State Electricity Transmission Company Ltd.
 - Name of Bank : Bank of India
 - Branch : Mumbai Large Corporate Branch
 - IFSC : BKID000160
 - A/c No. : 01602011000120

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- 2.4. Provided that proof of payment directly credited to above MAHATRANSCO account must be attached with the application. The Demand Draft shall be in favour of Maharashtra State Electricity Transmission Company Ltd. payable at Mumbai.
- 2.5. If at the time of application the quantum of power is not firmed up and when the augmentation of the transmission system is required for granting Open Access, the applicant shall specify the quantum of power to be interchanged with through the transmission network along with the point of Injection and Point of Drawal.
- 2.6. The exact Point of Injection or Point of Drawal, as the case may be, shall have to be firmed up and accordingly notified to the nodal agency at least 3 years prior to the intended date of availing Long-term Open Access, or such time period estimated by State Transmission Utility for augmentation of the transmission system, whichever is lesser, to facilitate such augmentation.
- 2.7. In case of transmission network augmentation is required to facilitate the Long Term Open Access as a part of STU Plan, the concerned transmission licensee shall endeavor all the efforts to commission such augmentation as per the stipulated schedule of completion. However, in case of delay in commissioning of such augmentation due to any reason beyond the control of the concerned transmission licensee, the applicant and their beneficiaries shall not claim any type of damages and/or compensation from the nodal agency and the concerned transmission licensee.
- 2.8. The Application shall be accompanied by a non-refundable processing fee of Rs. 2.0 Lakhs (Two Lakh Rupees Only) per application as specified in the Regulations. An applicant shall submit a Bank Guarantee of Rs.10,000/- (Ten Thousand Rupees Only) per MW of power to be transmitted along with the application. In case of Renewable Energy Projects, the Bank Guarantee shall be of Rs. 5,000/- (Five Thousands Only) per MW of power to be transmitted. The Bank Guarantee shall be as per **FORMAT: BG – 2**, in favour of "Maharashtra State Electricity Transmission Company Limited". The bank guarantee shall be valid till the execution of BPTA / operationalization of the Long Term Open Access, when the augmentation of transmission system is required / not required respectively.
- 2.9. In the case of Inter-State Generating Stations owned by the Central Government or Ultra Mega Power Projects coming up through the initiative of the Central Government, allocation of power to various beneficiaries as notified by it, and the Intra-State Generating Stations owned by the State government, then the applicant shall not be required to submit Bank Guarantee (BG) with the application form. The applicant shall submit the copy of PPA or notification from the Govt. of India/Maharashtra as the case may be, to the nodal agency, 3 years prior to the intended date of commencement of Open Access.
- 2.10. The Bank Guarantee may be encashed by the Nodal Agency if:
- a. The applicant withdraws the application.
 - b. The long term access rights are relinquished prior to the operationalization of such long term access in case, augmentation is transmission system is not required.

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- c. Applicant fails to furnish the details of Point of Injection or Point of Drawal as the case may be, 3 years prior to the intended date of Long Term Open Access.
- 2.11. An incomplete Application, and/or an Application not found to be in conformity with these Procedures and Regulations, shall be rejected.
- 2.12. The following documents are to be submitted along with the application for grant of LTOA:
- Copy of PPA or Sale/Purchase Agreement (with power purchase rate mentioned)
 - If projects are already connected to the system, document certifying physical interconnection with the InSTS or distribution system.
 - Certificate from the concerned Transmission/Distribution Licensee towards existence of infrastructure necessary for 15 minute time-block-wise energy metering and accounting in accordance with the provisions of State grid code in force.
 - Certificate from the concerned SLDC towards Real Time Visibility of generation.
 - Certificate towards Commercial Operation Date (COD) prior scheduling date or commencement date of access (in case of existing projects).
 - If the projects are not presently connected either to InSTS or distribution system, document confirming commissioning of physical interconnection with InSTS or distribution system before intended date of availing Open Access. This document shall be certified by the concerned Transmission/Distribution Licensee.
 - If the point of injection and/or drawal is within distribution system, consent from the concerned Distribution Licensee.
- 2.13. In case, the injection and/or drawal point is with the ISTS network i.e. to the network of CTU or any other transmission licensee holding license from CERC) and the applicant intends to use InSTS, the proposal shall be processed as per CERC Regulations and respective amendments. The consent shall be issued within 10 working days from the date of receipt of the application or date of receipt of all the required documents, mentioned at clause 2.6 above. In such case, consent from the concerned STU and copy of application made to CTU for LTOA is to be submitted along with the application.
- 2.14. The application for grant of Long Term Open Access shall be processed in consultation and co-ordination with the concerned transmission and/or distribution licensee and the applicant shall be intimated about grant of the access within 120/150 working days in case of any augmentation of transmission network is not required / required respectively, from the date receipt of application and/or receipt of all the required documents.
- 2.15. The nodal agency i.e. STU (MSETCL), shall carry out System Studies of InSTS to examine the adequacy of the transmission network corresponding to the time frame of commencement of long term access to effect the desired transaction of power on long term basis, using Available Transfer Capacity (ATC).

- 2.16. The nodal agency may change system strengthening requirements identified for a particular applicant project on the basis of any subsequent study carried out on its own motion or on another application for LTOA, with the purpose of optimum utilization of the transmission system or to conserve limited right-of-way, and in such event, the changes carried out by the nodal agency shall be intimated to the applicant, or any other person associated with the LTOA. Provided that the optimized system shall not work to the disadvantage of the applicant.
- 2.17. The letter towards Grant of Long Term Open Access issued by STU shall be as per **FORMAT: LTOA – 1**. In this letter the details viz. Point of Injection, Point of Drawal, Date of commencement and end of Access, required dedicated transmission infrastructure and/or augmentation of transmission network (identified through System Studies), estimate of tentative transmission charges to be paid by the applicant and Letter of Credit amount to be submitted to STU, along with other terms and conditions.
- 2.18. It is mandatory that within 60 days from the date of grant of LTOA, the applicant shall sign a Bulk Power Transmission Agreement (BPTA) with STU. In case, the transmission network of transmission licensee other than STU is being utilized, a tripartite BPTA shall be executed between Applicant, STU and the concerned transmission licensee. The format BPTA will be as per **BPTA-1 / BPTA – 2**, in case transmission system strengthening required/not required respectively.
- 2.19. Applicant shall furnish Letter of Credit as per **FORMAT: LC – 2**, equivalent to estimated transmission charges of TWO months, 30 days before commencement of LTOA period. The Letter of Credit shall be in favour of "Maharashtra State Electricity Transmission Company Limited". The said letter of credit shall be valid for the total period of access up to TWO (2) months after to the expiry date of LTOA. The estimated average transmission charges would be reviewed every six months/LTOA period whichever is less and accordingly the amount of Letter of Credit would be enhanced/reduced by the applicant.

3. FLEXIBILITY TO CHANGE POINT OF CONNECTION

- 3.1. A Long Term consumer may change the point of injection and/or drawal twice in a year subject to the results of system impact studies to be carried out by the STU at the behest of such consumers. The application shall be considered only if the rights of the other existing consumers are not adversely affected.
- 3.2. The application by the existing open access consumer for change of point of injection and/or drawal shall be submitted to STU 03 months in advance, before implementation of such change.
- 3.3. The 2nd change of point of injection/drawal would be considered only after lapse of six months from the first change being made effective.
- 3.4. The change of point of injection/drawal shall be considered only if there is no change in quantum of power to be transacted under Open Access.

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- 3.5. For the change in point of injection/drawal, the open access consumer shall apply to STU along with the processing fee as per clause no. 2.1, 2.2, 2.5 and 2.8

4. CANCELLATION OF LONG TERM OPEN ACCESS

- 4.1. If due to any reason, the open access is not availed by the applicant within ONE year from the date of commencement of the access, STU shall encash the Bank Guarantee and the LTOA granted shall stand cancelled. In such case, if required, the applicant shall apply afresh for the grant of LTOA which shall be processed as per the regulations.
- 4.2. In case, if there is delay in utilizing the LTOA, the applicant may intimate the STU about the same along with the reasons for such delay, however, such delay shall not be more than ONE year from the date of commencement of access. In such case, 10 % of bank guarantee per month shall be encashed by the STU. If the delay persists till ONE year from the date of commencement of access, the LTOA shall be cancelled as per clause No. 4.1 above.
- 4.3. For any other reasons such as non-payment of the charges applicable under the provisions of the regulations, the application and the access shall be cancelled as per clause no. 4.1 above.
- 4.4. In case of cancellation of the access or application, the applicant may apply afresh which shall be processed according to the provisions of the Regulations.
- 4.5. Before cancellation of the access or application, the applicant shall be intimated to submit the compliance and if the compliance not found satisfactory, the application or access shall be cancelled.

5. ALLOTMENT PRIORITY

- 5.1. A distribution licensee shall have highest priority in allotment of open access irrespective of type of open access.
- 5.2. The priority of grant of Medium Term Open Access shall be followed by the Long Term Open Access applicants and shall be preceded by the Short Term Open Access Applicants.
- 5.3. When the capacity requirement projected by an applicant is more than the available transmission capacity and the said applicant is not able to limit his requirement to the available capacity, the request of applicant having next lower priority shall be taken up for consideration.

6. SCHEDULING OF LONG TERM OPEN ACCESS TRANSACTION

- 6.1. The scheduling jurisdiction and procedure, curtailment and revision of schedule of LTOA transactions, metering, energy accounting and accounting of (Unscheduled Interchange) UI charges shall be as per the Regulations and the Indian Electricity Grid Code, as amended from time to time. While scheduling on day-ahead basis, long-term access customers would have the highest priority, followed by medium term customers and then followed by short-term customers.
- 6.2. All the generating plants (irrespective of installed capacity) and bulk consumers (having load above 1 MW) shall have to be scheduled by the concerned SLDC. However, the Renewable Energy generating projects, being identified as 'Non-firm power' by the commission, shall be governed by the provisions for scheduling laid down by the Commission time to time.
- 6.3. Underutilization of transmission capacity:

In case it is observed by SLDC that the LTOA customer request for scheduling is consistently (for more than 5 days) lower than the capacity granted by the Nodal Agency (i.e. STU), SLDC may issue a notice to such LTOA customer asking the reasons for such under-utilization. The LTOA customer shall furnish the reasons for such under-utilization and will provide such details like the reduced requirement, likely period, etc. by the following day. The un-utilized transfer capability will then be released for scheduling of Short-term open access transaction. No refund of transmission charges shall be made due to such curtailment.

7. RELINQUISHING OF ACCESS RIGHTS

- 7.1. A long-term customer may relinquish the long-term access rights fully or partly before the expiry of the full term of long-term access, by making payment of compensation for stranded capacity as follows:-
 - A. Long Term Access Consumer who has availed access rights at least for 12 years:
 - i. Notice of one (1) year – If such a customer submits an application to the STU at least 1 (one) year prior to the date from which such customer desires to relinquish the access rights, there shall be no charges.
 - ii. Notice of less than one (1) year – If such a customer submits an application to the STU at any time lesser than a period of 1 (one) year prior to the date from which such customer desires to relinquish the access rights, such customer shall pay an amount equal to 66% of the estimated transmission charges (net present value) for the stranded transmission capacity for the period falling short of a notice period of one (1) year.
 - B. Long Term Access Consumer who has not availed access rights at least for 12 years:
 - i. Notice of one (1) year – If such a customer submits an application to the STU at least 1 (one) year prior to the date from which such customer desires to relinquish the access rights, such customer shall pay an amount

equal to 66% of the estimated transmission charges (net present value) for the stranded transmission capacity for the period falling short of 12 (twelve) years of access rights.

- ii. Notice of less than one (1) year – If such a customer submits an application to the STU at any time lesser than a period of 1 (one) year prior to the date from which such customer desires to relinquish the access rights, such customer shall pay an amount equal to 66% of the estimated transmission charges (net present value) for the period falling short of a notice period of one (1) year, in addition to 66% of the estimated transmission charges (net present value) for the stranded transmission capacity for the period falling short of 12 (twelve) years of access rights.
- 7.2. The discount rate that shall be applicable for computing the net present value as referred to above shall be the discount rate to be used for bid evaluation in the Commission's Notification issued from time to time in accordance with the Guidelines for Determination of Tariff by Bidding Process for Procurement of Power by Distribution Licensees issued by the Ministry of Power.
 - 7.3. The compensation paid by the long-term customer for the stranded transmission capacity shall be used for reducing transmission charges payable by other long-term customers and medium-term customers in the year in which such compensation payment is due in the ratio of transmission charges payable for that year by such long-term customers and medium-term customers.
 - 7.4. Once relinquish request has been accepted by STU, an intimation of LTOA for the reduced power shall be issued and the same shall be informed to Applicant, concerned SLDC and CTU. Any increase thereafter, either in timeframe or quantum shall require submission of a fresh application which shall be processed according to the regulations.

8. METERING AND COMMUNICATION

- 8.1. It is mandatory on the applicant to install Special Energy Meters capable of time differentiated measurements for time-block-wise active energy and voltage differentiated measurement of reactive energy in accordance with State Grid Code.
- 8.2. All the Open Access consumers shall abide by the metering standards of CEA and all the interface points and/or metering points in the Intra-State Transmission System shall comply with the State Metering Code. In case such interface and/or metering points are not defined in the State Metering Code shall be defined by the SLDC to facilitate State Energy Accounting for the State.
- 8.3. The Open Access Consumer shall ensure visibility of generation to SLDC for real time monitoring and on-line communication of energy meter data for energy accounting.

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- 8.4. The Special Energy Meters and RTU-DC shall be open for inspection by any person authorized by the nodal agency and/or SLDC.
 - 8.5. The Open Access consumer shall bear the cost towards Special Meters, on-line communication of data & Visibility of generation to SLDC.

9. GENERAL

- 9.1 Applicant should expedite the finalization the point of injection or point of drawal and intimate to STU. The date of commencement of LTOA shall be applicable from at least 3 years from the finalization of power seller/buyer.
- 9.2 The applicant shall keep the nodal agency and SLDC indemnified at all times and shall undertake to indemnify, defend and keep the nodal agency and SLDC harmless from any and all damages, losses, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the long-term access transaction.
- 9.3 All costs/expenses/charges associated with the application, including bank draft, bank guarantee, letter of credit etc. shall be borne by the applicant.
- 9.4 The applicant shall abide by the provisions of the Electricity Act, 2003, the Regulations and Indian Electricity Grid Code, as amended from time to time.
- 9.5 This procedure aims at easy and pragmatic disposal of applications made for Medium Term Open Access in InSTS. However, some teething problems may still be experienced. The various implications would be known only after practical experience is gained by way of implementing these procedures. In order to resolve the same, this procedure shall be reviewed or revised by the Nodal agency with prior approval of MERC.
- 9.6 All complaints regarding unfair practices, delays, discrimination, lack of information, supply of wrong information or any other matter related to Medium-term Open access in InSTS shall be directed to MERC for redressal.

APPLICATIONS AND FORMATS

On Non Judicial Stamp paper of Rs.100/-

AFFIDAVIT

In the matter of filing application to Maharashtra State Electricity Transmission Company Ltd., for grant of Medium Term Open Access/Long Term Access under MERC (Transmission Open Access) Regulations 2014.

I.....(Name).....S/o Shri(Father's name)... working as (Post)..... in(name of the Company).....,having its registered office at (address of the company)....., do solemnly affirm and say as follows:

- 1) I am the (Post)..... of(Name of the Company)....., the representative in the above matter and am duly authorized to file the above application and to make this affidavit.
- 2) I submit that M/s.....(name of the company)..... is a registered company(Public Ltd/Pvt. Ltd.)..... Registered under Companies Act. Under the Article of Association of the Company and in accordance with the provisions of Electricity Act, 2003/relevant Regulation(s) of MERC, the company can file the enclosed application.
- 3) I submit that all the details given in the enclosed application for grant of Medium Term Open Access/Long Term Access along with necessary documents are true and correct and nothing material has been concealed thereof.

(Signature)
Name of the Applicant

Date:

Place:

(To be duly attested by Notary)

APPLICATION FOR GRANT OF LONG TERM OPEN ACCESS

| | | |
|---|---|--|
| 1 | Name of the applicant applying for Medium Term Open Access on intra-state transmission system | |
| 2 | Address for correspondence | |
| 3 | Details of Authorized Contact Person for communication | |
| | Name | |
| | Designation | |
| | Phone Number | |
| | Mobile Number | |
| | Fax Number | |
| | E-Mail ID | |
| | Details of Authorized Contact Person for Scheduling | |
| | Name | |
| | Designation | |
| | Phone Number | |
| | Mobile Number | |
| | Fax Number | |
| | E-Mail ID | |
| 4 | Nature of Applicant | |
| | Normal Generator (other than Captive) | |
| | Captive Generator | |
| | Bulk Consumer | |
| | Electricity Trader | |
| | Others | |
| 5 | Quantum and Period for Medium Term Open Access | |
| | Quantum (MW) for which LTOA is required | |
| | Date from which LTOA is required | |
| | Date up to which LTOA is required | |
| | Time Block for LTOA | |
| | Total Period of LTOA | |
| 6 | Details for Injection of Power | |
| | Total Installed Capacity (MW) | |
| | Project location, Taluka, District | |
| | Specify Status of project i.e. Existing / Proposed / Under-construction | |

| | | |
|---|--|-----------------|
| | Specify whether the project is connected to Transmission system or Distribution system | |
| | Name of the transmission/Distribution licensee to which project is connected | |
| | Name of the Sub-Station or Line to which project is connected | |
| | In case, if the project is connected to the network of distribution licensee, name of EHV Sub-Station to which distribution system is connected | |
| | Attach SLD from Point of Injection up to EHV Sub-Station | |
| 7 | Details of Drawal of Power | |
| | Total Quantum of Power to be drawn (MW) | |
| | Specify Status of project i.e. Existing / Proposed / Under-construction | |
| | Specify whether the project is connected to Transmission system or Distribution system | |
| | Name of the transmission/Distribution licensee to which project is connected | |
| | Name of the Sub-Station or Line to which project is connected | |
| | In case, if the project is connected to the network of distribution licensee, name of EHV Sub-Station to which distribution system is connected | |
| | If the consumer is already a customer of distribution licensee, attach copy of latest electricity bill | <i>Attached</i> |
| | Attach SLD from Point of Drawal up to EHV Sub-Station | |
| | Whether Open Access is for PARTIAL or FULL Load (<i>In case of Partial load, attach copy of consent from concerned distribution licensee</i>) | |
| | Details of alternate arrangements in case of absence of Generation | |
| 8 | If dedicated transmission system for connecting generating plant is proposed or under-construction, specify the time frame required for completion of the same (<i>which should not be prior to date of commencement of LTOA</i>) | |
| 9 | If dedicated transmission system for connecting bulk power drawal is proposed or under-construction, specify the time frame required for completion of the same (<i>which should not be prior to date of commencement of LTOA</i>) | |

| | | |
|----|--|---|
| 10 | Enclose Progress report certified by the concerned transmission licensee | |
| 11 | Particulars of PPA/Contracts | |
| | For Power Purchase: Executed between ---- (Name of Seller)----- and ----(Name of Buyer)----- | From Date: _____ To Date: _____ Total Period: _____ (Months) |
| | For Balancing and Mismatch Power requirements: Executed between ----(Name of Seller)----- and ----(Name of Buyer)-----. | |
| 18 | Processing Fee Transaction Details | |
| | Bank Draft for Application Processing Fee | |
| | Name of Bank | |
| | Demand Draft No. & Date | |
| | Amount in Rs. | Rs.2,00,000/- (In words: Two Lakhs Rupees only) |
| | Payable at Bank | |
| | If payment made through NEFT, enclosed copy of receipt | Receipt No: _____ Date: _____ |
| | | |

It is hereby certified that:

1. For the transactions, utilities (including buyer, seller and trader) shall abide by the provisions of the MERC (Transmission Open Access) Regulations, 2014 and/or MERC (Distribution Open Access) Regulations, 2014 as the case may be and its amendment from time to time.
2. The buyer and seller have entered into commercial agreement for the proposed transaction. Payment of the Long/Medium Term Open Access charges (if not paid) shall be made by me.
3. The applicant hereby agrees to keep (Name of the Transmission licensee)..... indemnified at all times and undertakes to indemnify, defend and save the (name of the Transmission licensee)..... harmless from any and all damages, losses, claims and actions relating to injury to or death of any person or damage to property, demands, suits, recovering costs and expenses, court costs, attorney fees, and all obligations by or to third parties, arising out of or resulting from the transactions under his approval.
4. We shall execute the Bulk Power Transmission Agreement (BPTA) and submit Bank Guarantee & Letter of Credit after receiving the approval from the (Name of the Transmission licensee)..... with in the 60 days failing which (Name of the Transmission licensee)..... has right to cancel the approval without any further notice.

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5. (*Insert in case of Intra-state Trader*)..... has a valid license (ref. no issued by and valid up to) for Intra-state Trading and will abide by MERC (Trading Licence Conditions) Regulations, 2004 and its amendment from time to time.
6. (*Insert in case of Inter-state Trader*)..... has a valid license (ref. no issued by and valid up to) for Inter-state Trading and will abide by CERC (Procedure, Terms and Conditions for grant of trading license and other related matters) Regulations, 2009 and its amendment from time to time.

Place:

Date:

Seal:

Name:

Signature of the Applicant

Designation:

Intimation for Grant of Long Term Open Access (LTOA)

M/s. (Name of Applicant).....

Address:

.....

Kind Attn: Shri.(Name of Contact Person).....

Sub: Grant of Long Term Open Access to M/s.(Name of Applicant)..... for MW
Power in
InSTS.

Ref : 1. M/s. Application No., dtd., for grant of LTOA.

Nature of Applicant:

Normal Generator (Other than Captive)

Captive Generator

Bulk Consumer

Electricity Trader

Details of Long Term Open Access:

Quantum (MW) of Power for which LTOA is granted:

Date from which LTOA is granted:

Date up to which LTOA is granted:

Point of Injection Details:

Name of the Generator:

Total Installed Capacity:

Project Location (Site, Taluka, District):

Name of the Transmission Licensee to which project is connected:

Point of Injection (Name of Sub-Station/Line of Transmission Licensee):

Quantum of Power (MW) to be injected for LTOA:

Point of Drawal Details:

Name of Consumer:

Total Installed Capacity of Load:

Project Location (Site, Taluka, District):

Name of the Transmission Licensee to which project is connected:

Point of Injection (Name of Sub-Station/Line of Transmission Licensee):

Quantum of Power (MW) to be injected for LTOA:

List of Documents submitted by the Applicant are...

- a.
- b.
- c.
- d.

The Long Term Open Access shall be governed by the:

- i. Indian Electricity Act. 2003.
- ii. Indian Electricity Grid Code December 2005
- iii. MERC (Transmission Open Access) Regulation – 2014.
- iv. MERC (State Grid Code) Regulations 2006 - Part B, Part C, Part D and Part F.
- v. Amendments in regulations if any, issued by the appropriate commission at any time.

Details of Additional Documents to be submitted by the Applicant within 60 days from the date of this letter:

- a. Bulk Power Transmission Agreement (BPTA) executed between Applicant, STU and the concerned Transmission Licensee.

Details of Additional Documents to be submitted by the Applicant before 30 days from the date of commencement of LTOA:

- a. Letter of Credit of Rs..... Lakhs (In Words:) in favour of Maharashtra State Electricity Transmission Company Limited.
Effective date of Letter of Credit: (*Specify Date of commencement of LTOA*)....
Validity date of Letter of Credit: (*Specify a Date TWO month before expiry of LTOA*).....

Further, it is to inform you that if you fail to submit the above mentioned documents before the prescribed dates, this grant of LTOA shall stand cancelled as per the provisions of the regulations.

Thanking you.

Yours Faithfully,

Chief Engineer
State Transmission Utility