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## Case 182 of 2014

### - Scenarios for Network Development in Mumbai Suburb (RInfra) Area

08.09.2015



# Premise: Definition of New Consumer



Tata Power's interpretation of 'New Consumer/ Connection'

[Submitted by Tata Power on 24.08.2015]

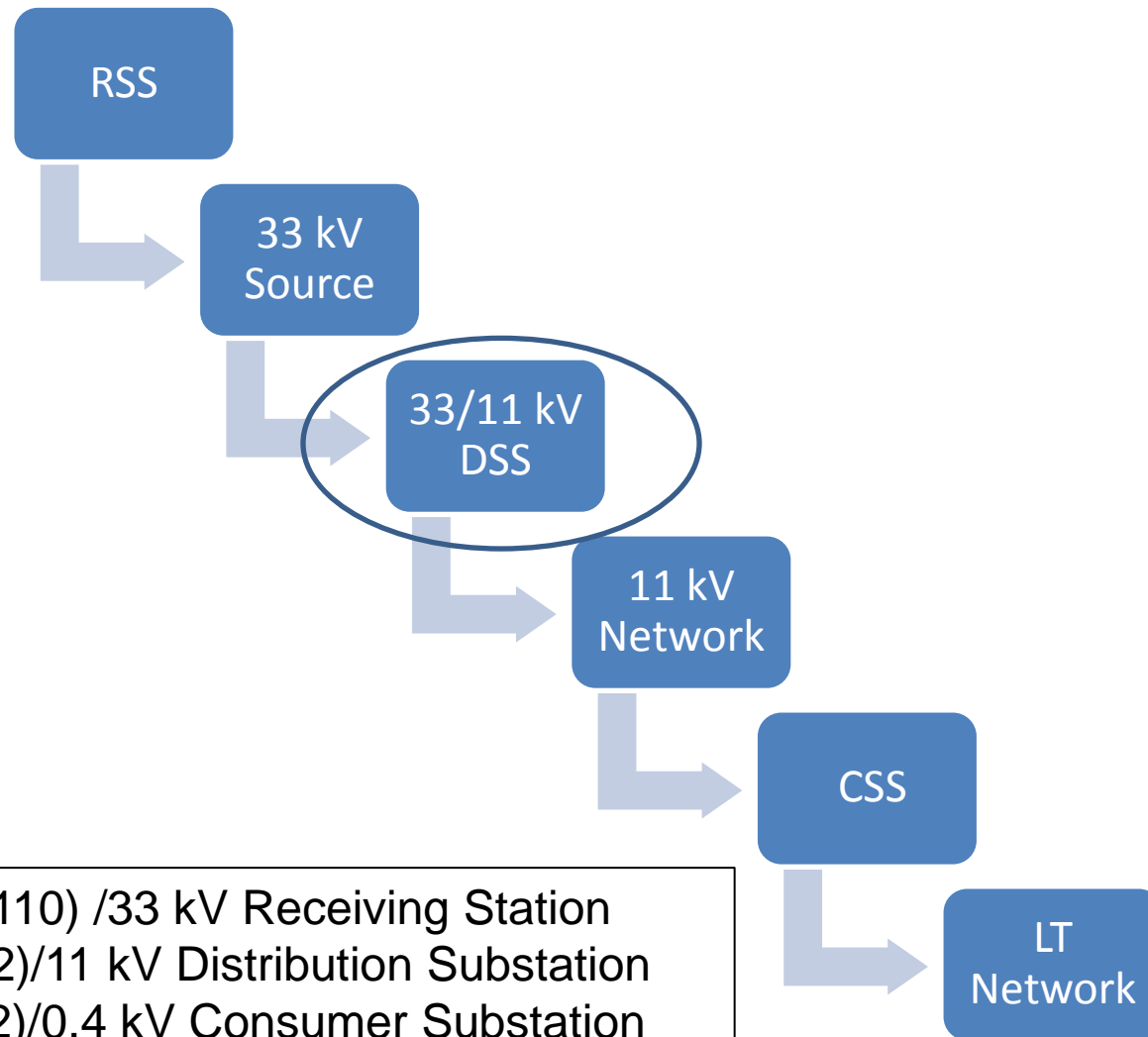
- The term 'New Consumer'/ 'New Connection' includes:-
  - (a) Any person who has made an application for supply of power and whose premises is, for the time being, not connected to the works of the distribution licensee for receiving supply of electricity and also includes a person whose premises have been permanently disconnected by a licensee.
  - (b) Any person who has made an application for supply of power and whose premises is, for the time being, connected to the works of the distribution licensee for only receiving temporary supply of electricity.
  - (c) Any other person/ premises as may be decided by the Hon'ble Commission from time to time.
- Basic elements to be met:-
  - (a) Any person who has made an application for supply of power;
  - (b) Not permanently connected, for the time being, to the works of the licensee for the purpose of receiving supply of electricity

- Consumer choice and competition are the key principles while developing the scenarios.
- Availability of DSS (33/ 11 kV Substation) for Distribution Network would determine extension of underlying network
- If the DSS of the utility exists in any particular area, the utility should be permitted to lay the relevant network to serve the consumers who approach the Utility.
- Both the Distribution Utilities are obliged to provide last mile connectivity, if spare capacity exists in their respective DSS, independent of request arising directly from consumer or from the other Distribution Utility to whom consumer has approached
- While it is important to avoid duplication of network, creation of infrastructure always creates extra capacity during initial period which is essential for competitiveness in the market in the long run

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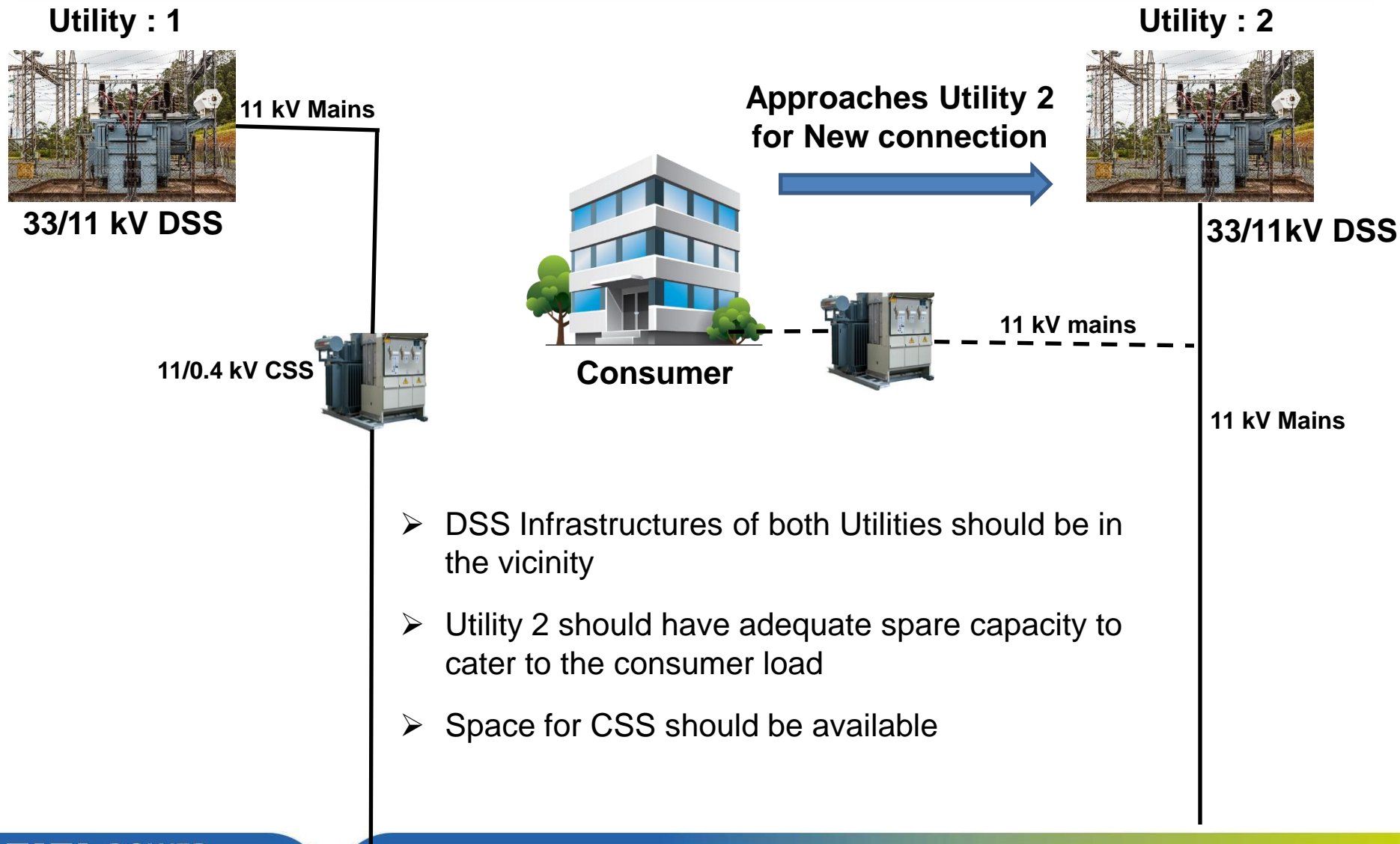
## **Analysis of Scenarios for Network Development**

# Value Chain –Critical Link -DSS

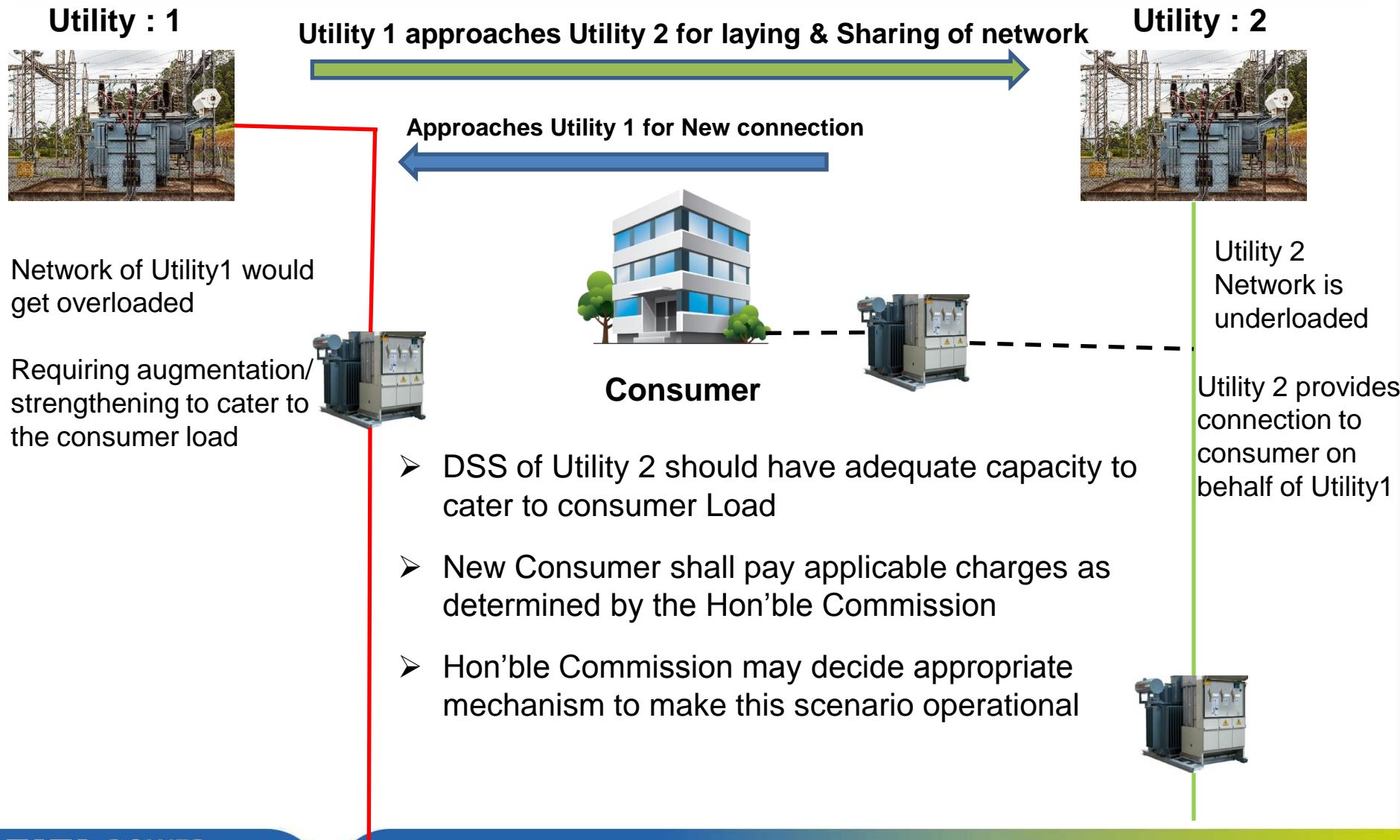


RSS	220(110) /33 kV Receiving Station
DSS	33(22)/11 kV Distribution Substation
CSS	11(22)/0.4 kV Consumer Substation

# Scenario1: New Consumer approaching Distribution Utility having adequate 33/11 kV DSS infrastructure in the vicinity



# Scenario 2: Consumer approaches a Distribution Utility whose network would get overloaded & needs augmentation





# Scenario 3: New consumer approaching a Distribution Utility without adequate 33/11 kV DSS infrastructure in the vicinity

**Utility : 1**



**Utility 2 approaches Utility 1 for laying & Sharing of network**



**Utility : 2**



**Approaches Utility 2 for New connection**



**Consumer**

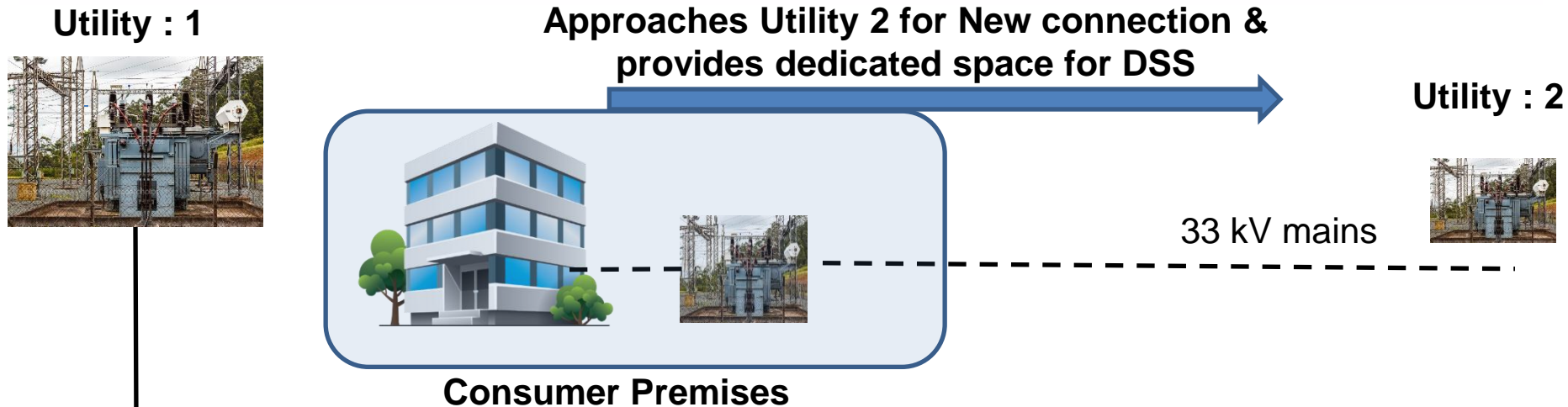
Utility 1 provides connection to consumer on behalf of Utility 2

- DSS of Utility 1 should have adequate capacity to cater to consumer Load
- New Consumer shall pay applicable charges as determined by the Hon'ble Commission
- Hon'ble Commission may decide appropriate mechanism to make this scenario operational





# Scenario 4: New consumer approaching utility without DSS in the vicinity and provides space for DSS



- Consumer is willing to provide sufficient space to create a DSS infrastructure
- It is imperative to utilise the opportunity to develop DSS for future growth
- DPR to be approved by Hon'ble Commission if required



# Scenario 5: Existing Consumer seeks migration on network of other Distribution Utility having adequate DSS/ CSS in vicinity

**Utility : 1**



Utility 1 to disconnect the consumer permanently



**Approaches Utility 2 for Migration**



**Utility : 2**



**Existing Consumer**

- DSS & CSS Infrastructures of both Utilities should be in the vicinity
- Utility 2 should have adequate spare capacity to cater to the consumer load
- Process to be guided as per Migration Protocol

# Suggestions for Capex Approval Process



- The Commission may establish an institutional framework for scrutiny and recommendation of any new distribution infrastructure in city : Distribution Coordination Committee (DCC)
- The proposed DCC may work on the lines of Grid Coordination Committee established by this Hon'ble Commission for transmission infrastructure in the State.
- Tata Power requests the Commission to develop a mechanism (may be web based tool) that would provide information about loading of DSS of all utilities in the city.

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## Compliances

## Compliances to Daily Order .....(1/2)

S. No.	Direction	Status	Details
1	Review Proposal for Mumbai South City Area	√	Revised proposal for Mumbai South City Area has been incorporated in the Network Rollout Plan
2	Enter into a Formal dialogue with BEST	√	Three structured meetings between BEST and Tata Power have taken place.
2	Information exchange for Reliability in the Formats freezed by Director Technical ,MERC.	√	Data in all the Four formats has been shared on 27.08.2015.
3	Submit to the Commission the difference between the terms observations, finding ,ruling and its legal implications	√	Submitted as a part of the additional submission

## Compliances to Daily Order.....(2/2)

S. No.	Direction	Status	Details
4	Submit to the Commission Meaning of New Connection and its implication on network implication	√	Submitted as a part of the additional submission
5	Bring forth various Situation specific scenarios for Network Laying	√	Submitted as a part of the additional submission
6	Tata Power to file its submission by 19.08.2015.	√	Submitted.

- To approve the revised Network Rollout Plan within the ranges of Realistic & Optimistic to ease out any deviations .
- Based on the prudence check by the Hon`ble Commission ,the principles and scenarios may be approved.
- Condone any inadvertent omissions /errors /shortcomings and permit Tata Power to add /change /modify/alter this filing and make further submission as may be required at a future date.
- Pass any such directive as that the Hon'ble Commission may deem appropriate in the facts and circumstances of the case.



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