

**BEFORE THE HON'BLE MAHARASHTRA ELECTRICITY REGULATORY COMMISSION,  
MUMBAI**

Filing No.

Case No.

**IN THE MATTER OF:**

**PETITION FOR GUIDELINES FOR CONNECTIVITY TO SOLAR GENERATORS BELOW 1 MW**

**AND**

**IN THE MATTER OF THE APPLICANT:**

**SUDHIR BUDHAY 39, SHANKAR NAGAR, NAGPUR 440010**

**---Petitioner**

**V/s**

**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED**

**'PRAKASHGAD', BANDRA KURLA COMPLEX , BANDRA (EAST), MUMBAI – 400 051.**

**---Respondent 1**

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**

**'PRAKASHGAD', C-19, E Block, BANDRA KURLA COMPLEX , BANDRA (EAST),**

**MUMBAI – 400 051.**

**---Respondent 2**

**RELIANCE POWER LTD, H BLOCK, 1<sup>ST</sup> FLOOR, DHIRUBHAI AMBANI KNOWLEDGE CITY,**

**NAVI MUMBAI -400 710**

**---Respondent 3**

**TATA POWER,**

**BOMBAY HOUSE, 24, HOME MODY STREET, MUMBAI 400 001**

**---Respondent 4**

**BRIHANMUMBAI ELECTRIC SUPPLY & TRANSPORT UNDERTAKING**

**ELECTRIC HOUSE, COLABA, MUMBAI 400 001**

**---Respondent 5**

***Affidavit***

I, **Sudhir Budhay**, son of **Dr. S.P. Budhay**, aged **53** years; having my office at **39, Shankar Nagar, Nagpur 440010** do solemnly affirm and say as follows: -

I say that there are no proceedings pending in any court of law/ tribunal or arbitrator or any other authority, wherein the Petitioner is a party and where issues arising and/or reliefs sought are identical or similar to the issues arising in the matter pending before the Commission.

I solemnly affirm at Nagpur on this **28<sup>th</sup>** day of **June 2013** that the contents of the above affidavit are true to the best of my knowledge, no part of it is false, and nothing material has been concealed there from.

Identified before me

**(Sudhir Budhay)**

**Nagpur**

**Date: 28 June 2013**

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The applicant, Sudhir Budhay is an independent self employed engineering graduate from Nagpur University having office at 39, Shankar Nagar, Nagpur 440010 and doing business in the filed of Renewable energy .

Petitioner is submitting this petition in the interest of public and effort to save this planet through use of renewable energies and reduce pollution and carbon emission in atmosphere .

#### **A) TYPES OF CONSUMERS :**

- 1) During the course of business for selling Renewable Energy / Solar Power products, the petitioner has himself surveyed more than 100 site where the consumers have Authority , Money, Need & willingness to invest in Solar Power for their captive use but cannot go in for the same due to
  - a. Non availability of terrace / Land with in the same premises adequate for the amount of power they wish to generate. For example Hotels, Hospitals with 25 KW to 100 KW power requirements.
  - b. Owner ship of the terrace / Land lies with society. Typically small offices, architects, clinics where power requirements are from 10 KW to 25 KW
  - c. Office premises are rented / leased. Typically guest houses, corporate offices, hospitals where power requirements may vary from 10KW +.

Please note that these are all day time loads and consumes maximum power during the active solar power generation period. So their need would be permission for transmission of power only.

- 2) Domestic Consumers : Big bungalows where power consumption is more than 10 KW, has Money, Need & willingness to invest in Solar Powers but do not have sufficient space for installing solar panels.

This category of consumers would generate power during the day time and consumer in 24 hrs. So their need is "Banking of Power"

- 3) Large corporate who carry REC buying liabilities :

Large corporate like Oil Companies, Mobile Phone Operators, Retail Chains, Airline Companies, Banking Industry, Insurance, Security, Finance & Transport Sector ( just for example HPCL who have retail outlets in thousands all across India ) can invest in their own local solar power generation units at each retail outlets. This will be generation and consumption at the same premises and add to huge savings in LT Power.

**B) SOLUTION POSSIBILITES :**

1) Consumers mentioned in para 1 & 2 would like to generate Solar Power

- a. Within the same premises
- b. Outside the premises at single or Multiple locations
- c. Or Generate at one location or consume at multiple locations

And consume the same within the day time i.e. the period the active solar power generation period. Please refer to Diagrams (Ann 1 & 2 enclosed) for details.

2) Consumers mentioned in para 3 , would like to generate their required power in Active Solar Power Generation Period and deposit the same with the distribution company for withdrawal during 24 hrs as needed.

3) Corporate Business Houses would like to invest in micro solar power generation plants and contribute to huge power savings provided some procedures are formulated for metering & certification of energy generated by such micro solar power generation plants and credit is given to the investor to reduce their REC buying liabilities.

**C) NEED FOR AMMENDMENTS IN OPEN ACCESS POLICY AND COONECTIVITY :**

- 1) To facilitate use of renewable / solar energy, open access policy can be amended to suit the needs of common consumers for captive use with minimum paper work & procedures.
- 2) In order to cover the cost of transmission, MERC may charge transmission / wheeling charges. However to make solar projects viable, humble submission is made to wave off the same in view of the fact that the generation is on LT and consumption is also LT in the and distribution & transmission companies will save on the transmission losses which are to the tune of 30% to 40%.
- 3) Humble submission is also made to wave off “Cross subsidy charges” also as the quantum of power generation individually is very low. The project will become unviable if not waved off.
- 4) Average Differential rate of peak & off peak power buying rate, may be charged for the consumers who opt for Power Banking with the distribution company.
- 5) Methodology & procedures to be formulated for metering & certification of micro solar power generation so that large corporate can invest in the same and reduce their REC buying liabilities.

**D) OTHER GENERAL BENEFITS TO SOCIETY :**

1. **Reduce Distribution Losses** : Distribution Losses in LT are to the tune of 30% to 40%. Since the generation is near the load and being done at LT, there will be substantial saving in transmission losses.
2. **Increase in Power Generation in Maharashtra** : There are 33 districts in Maharashtra. Even if 1% of the consumers opt for self generation of 10 KW each ( considering on the lowest size ), few hundred MW power will be added to Maharashtra Grid without any investment in Power Plant, Land, Running & Maintenance cost & Manpower cost to Maharashtra Govt / generation companies.
3. **Control Further Pollution & conserve fossil fuel** : It will automatically control further pollution and carbon footprint by few thousand tons per year for the life time. Making use of renewable energy will help us to conserve fossil fuel for future.
4. **Power for agriculture** : As per information on MSSIDCL web site, they are targeting to provide power to 3000+ villages in Maharashtra. If this extra power can be diverted for villages & agriculture, employment opportunities in rural will go up and result in reducing manpower rushing to cities for employment, reduce farmer suicides also reduction in crime rate.
5. **Maharashtra State can become No 1 in Solar Power Generation** : Maharashtra State can not only become No 1 state in generation of power from renewable energy but can also appear in Gunnies Book of World Records in respect of No of Solar Power Plants installed.

**Prayer:**

It is prayed to Honourable Commission that,

- 1) Hon'ble Commission may please admit this petition.
- 2) Condone any inadvertent omissions/ errors/ shortcomings and permit petitioner to add/change/modify/alter this filing and make further submissions as may be required at a future date.
- 3) Examine the concerns expressed by the petitioner for a favourable dispensation
- 4) Finalize connectivity norms for Solar generators below 1 MW with minimum procedures and paper work for consumers specially for captive consumption with generation / consumption at one or multiple places.

- 5) Wave off transmission / wheeling charges & Cross Subsidy Surcharge for the power so generated from Solar Power Generation Plants for the consumers consuming the power during the active solar power generation period.
- 6) Charge differential rate as banking charge per unit for the consumers opting for "Power Banking Scheme" & consume power deposited any time in 24 hrs.
- 7) Formulate procedure for metering and certification of power generated by micro solar power plants to be accounted only for the purpose of reducing REC buying liabilities and if needed charge reasonable metering & certification charges per KW certified to the beneficiary.
- 8) Pass such further and other orders, as the Commission may deem fit and proper keeping in view the facts and circumstances of the case".

Hon'ble Commission may consider above reasoning and grounds and pass suitable orders.

**Nagpur**

**(Sudhir Budhay)**

**Date: 28.06.2013**