

Executive Summary

The Pune Municipal Corporation (PMC) with an intension to develop project facility for treatment and disposal of the waste had invited proposals from the private sector after floating the request for proposal in July 2009. M/s Rochem Separation System (India) Pvt. Ltd., Mumbai was selected for development of MSW Project facility at Hadapsar, Pune on Build, Own, Operate and Transfer (BOOT) basis for a period of 30 years. A Concession Agreement in this regard was signed between the M/s Rochem Separation System (India) Pvt. Ltd. and PMC on 18.11.2010. M/s Rochem Separation System (India) Pvt. Ltd., Mumbai had formed a SPV for implementation of the said project and assigned the rights of development of said MSW project facility to M/s Rochem Green Energy Pvt. Ltd. (RGEPL), a Special Purpose Vehicle (SPV) for undertaking the said concessional work on its behalf. As per the concession agreement, PMC agreed to deliver the assured waste quantity of 700 tonnes per day (TPD) at project site for disposal of waste. PMC further agreed to pay the tipping fee of Rs 300 per metric tonne of MSW as constant till the concession period. The PMC has allotted a plot measuring 1 Hectare at Hadapsar Industrial Estate-2 (Ramtekdi) in Pune for setting up the project. The petitioner has also provided an irrevocable, revolving and unconditional bank guarantee of Rs. 2,00,00,000/- (Rupees Two Crores Only) as performance guarantee to PMC.

The project is based on close coupled pyrolysis-gasification technology for processing of MSW. This technology provides the cleanest and most efficient platform for managing waste disposal and for generating green energy. The choice to use the gasification technology for the proposed WTE project is based on careful study of the merits and demerits of all technological options as well as analysis of the quality of waste and local conditions. The pyrolysis-gasification technology has following advantages over the other available waste-to-energy technologies : i) lowest carbon footprint, ii) requires less land area, iii) causes practically no air and land pollution, iv) produces more power with less waste and v) causes maximum volume reduction. According to National Master Plan for development of waste to energy in India, among the thermal technology options practiced for processing waste into energy Gasification technology emerged as successful technology ahead of incineration technology on global basis. The study underlines that the Gassification/pyrolysis has higher energy recovery potential and reduced environmental impacts.

The project will process approximately 700 TPD of municipal solid waste and convert it into high quality syngas. The syngas is fired in a gas engine to produce power. The MSW power project is in advance stage of commission and being commissioned in Phased manner. The first phase of 2.99 MW capacity is already commissioned and operating satisfactorily for meeting the auxiliary requirements of the project.

With an intention to sale the electricity to distribution licensees in the State, M/s RGEPL has filed petition under Section 62(1) and 86(1) (e) of the of the Electricity Act 2003 before the Hon. Maharashtra Electricity Regulatory Commission for determination of tariff for supply of electricity from 8.97 MW capacity municipal solid waste based power project being commissioned at Pune for sale of electricity to

the distribution licensees in Maharashtra in March 2014. The Commission has admitted the petition and conducted a Technical Validation Session (TVS). Through the petition M/s RGEPL prayed that :

- a. Accept this petition for determination of tariff for supply of electricity from proposed MSW power project at Pune to Distribution licensees in Maharashtra. It is further requested that the Hon. Commission may specify the levellised Tariff for proposed MSW power plant for 20 year tariff period which is useful life of the plant. The Hon. Commission may direct the distribution licensee to execute the PPA with the petitioner for the specified tariff period.
- b. Approve an interim relief by approving the Tariff of Rs. 4.88/kWh for sale of electricity generated from MSW project to the distribution licensee (MSEDCL) for this project so that project can immediately commission its first unit.
- c. Approve the levellised Tariff of Rs. 5.88/kWh for sale of electricity generated from proposed MSW power project to distribution licensees in Maharashtra.
- d. To grant an opportunity in person before Hon Commission during the hearing on the above matter.
- e. Condone any inadvertent omission/errors/short comings and permit the petitioner to add/change/modify/alter this filing and make future submissions as may be required at a future date.

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