

Proposal :BEPL/Power/DESC/6- Jan- 2005

This Proposal defines key terms for Consulting Services by DSCL Energy Services Company Ltd (DESC) to Badarpur Energy Private Ltd. (BEPL). The services would cover preparation of Detailed Project Report, basic and detailed engineering for the plant, procurement support, project management, inspection of equipment, commissioning of the plant, and performance evaluation post commissioning.

1 Background

Barak Valley has a variety of bio-mass available including rice-husk, forest waste, bamboo etc. From nearby paper mill (Hindustan PaperMill), bamboo waste is available, which could have use in the power plant. Also, good quality coal is available from nearby Meghalaya (about 70 KM away).

Bio-mass is proposed to be the major fuel as it is clean and can potentially benefit from Clean Development Mechanism (CDM). A preliminary survey has been done by BEPL team and this will be validated by the consultants.

2 Scope of work

2.1 Detailed Project Report

A Detailed Project Report would be prepared and submitted. The project report will be suitable for submission to financial Institutions and Banks. It will address to following:

1. Study of the power load pattern.
2. Fuel availability (including waste from nearby paper mill) and price forecasting.
3. Fuel logistics
4. Waste heat recovery from cement plant.
5. Technology options with cost benefit and pros and cons analysis
6. Plant configurations
 - Fuel mix scenario analysis for plant configuration
 - Generation of options-3 to 4 options are proposed to be generated
 - Selection of two options in consultation for detailed feasibility analysis
 - Preparation of techno-economic evaluation reports for the two options based on DSCL ESCO data base
 - Freezing of option for the detailed feasibility report
7. Cost estimation
 - Finalization of plant and major equipment specifications
 - Preparation of bill of materials for all major equipment including Boiler, TG sets

DSCL

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All travel related expenses plus local boarding and lodging and local travel will be payable at actuals.

All applicable taxes, including service tax, would be reimbursable as per prevailing rate on the date of payment.

5.1 Payment Milestones

Sr No.	Month and Year	Rs Lacs
1	Jan 2005	2
2	Feb 2005	3
3	Mar 2005	3
4	Apr 2005	3
5	May 2005	3
6	June 2005	2
7	July 2005	2
8	Aug 2005	2
9	Sept 2005	2
10	Oct 2005	2
11	Nov 2005	2
12	Dec 2005	2
13	Jan 2006	2
14	Feb 2006	2
	TOTAL	32

Acceptance

For ('DESC')... DSCL Energy Services Company Ltd

Submitted By For DSCL Energy Services Co. Ltd.
(signature)

SANJAY SHIN Authorised Signatory
(printed name and title)

Accepted for BEPL (Badarpur Energy Private Ltd.)
For Badarpur Energy Private Limited

By: (Signature) (signature)

K. CHAMARIA Auth. Signatory
(printed name and title)

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