

PART B – SECTOR SPECIFIC INFORMATION
WASTE HEAT RECOVERY BASED POWER PROJECT

1.0 GENERAL

1.1 **Proposed Installed Capacity of the Project :**

1.2 **Proposed location of the Project**

Village : _____
 Taluk : _____
 District : _____
 State : _____
 Telephone/Fax : _____

1.3 **Accessibility to Proposed Location of the Project**

Particulars	Name	Distance from Project Site (km)
Nearest Tehsil/Block HQ		
Nearest Road Head		
Nearest Railway Station		
Nearest Airport		
Nearest Grid/Substation		

1.4 **Special Category if any – Location based**

Tick as applicable						
NE States & Sikkim	Islands & Estuaries	Hilly Area	Jammu & Kashmir	Deserts	Newly formed states	Not applicable

1.5 **Details of Proposed Project Land (Please tick appropriate)**

Particular	Area	Acquired	Whether land is Mortgagable
Govt. Land			(*)
Pvt. Land			
Forest Land			
Other Specify			
Total			

(*In case of Govt. Land is not mortgagable, please enclose letter from the concerned Govt. Authority)

2.0 TECHNICAL

(Enclose Detailed Project Report)

2.1 Details Relating to Resources

2.1.1 Fuel Requirement for the Project

No	Type of Fuel	Required Quantity (Tons)	
		Per Hour	Per Annum
1			
2			
3			
4			

2.1.2 Tie-up of fuel for the project

(in case of Waste Heat Recovery Power Projects)**

No	Type of Fuel	Arrangements of Supply	Quantity / year	Present Selling Price/ Landed Cost (Rs.)
1				
2				
3				

(** Please enclose process flow chart with material balance, utilities and process parameters and necessary supporting documents)

2.2 Estimation of Power/ Steam/ By products Generation from the Project

- 2.21 Electrical Power : _____ Million Kwh/year
2.22 Steam : _____ Million Kcal/year
2.23 By Products, if any : _____ Tons/Year

2.3 Project Configuration

- 2.31 No of Boilers :
2.32 Type & Capacity of Boilers :
2.33 No of TG Sets & Capacity :
2.34 No of Generator Transformers & Capacity :

2.4 Procurement Procedure

- 2.41 Basis of selection of the equipment : Single Quotation / RFQ Procedure / Limited Tender / Published Tender / Any Other
Details of Procurement Procedure followed : (Please enclose Detailed quotation evaluation report) *(Please provide details of procedure adopted)*
2.42 Detailed Quotation Evaluation Report : Enclosed/ Not Enclosed

2.5 Power/ Steam Utilisation Details

2.51 Name of the Plant

1.	:	_____ Mill Kwh/ K Cal
2.	:	_____ Mill Kwh/ K Cal
3.	:	_____ Mill Kwh/ K Cal
4. Surplus Power available for export to grid, if any	:	_____ Mill Kwh

2.6 Mode of implementation

2.61 Mode of implementation of the Project : Self ESCO (Consultants)
 EPC Split Packages
(Please tick appropriate)

2.62 Details of Technical Consultant engaged, if any for DPR preparation & execution of the project

1. Name and address of the consultant who has prepared the DPR :
2. Telephone :
3. Fax :
4. Contact Person :

2.7 Present Energy Consumption Details

2.71 Main Plant Capacity : _____
:

Capacity Utilisation Factor (%) : _____

2.72 Annual Energy Bill
i. Power : Rs _____
ii. Fuel : Rs _____
Total : Rs _____

2.73 Power
i. Connected Load[#] :: _____ KVA
ii. Annual Consumption[#] : _____ Million Kwh/year
iii. Present Tariff[#] : Rs _____ /Kwh
iv. DG Set Capacity : _____ KVA
v. Generation Cost : Rs _____ / Kwh

2.74 Fuel Consumption : _____ MT/year
Present Cost : Rs _____ /MT

(List all the fuels in use)

[#] (Information given is to be supported by necessary documents and essentially required for Captive Power Plant)

3.0 COMMERCIAL

3.1 Project Cost Estimate (Provide both foreign and local currency Cost)

Particulars	Cost (Rs. in lakhs)	Taxes/Duties, if any (Rs. in lakhs)	Total (Rs. in lakhs)
Land Cost & Site Development			
Building and Civil Works			
Plant & machinery			
Training and Technical Know-how Fee			
Miscellaneous Fixed Assets			
Preliminary Expenses			
Installation, Engineering, Consultancy Fee			
Project Management Fee			
Pre-operative Expenses			
Contingency (%)			
Monitoring & Verification			
Interest During Construction (IDC)			
Margin Money for Working Capital			
Others			
Total Project Cost			

3.2 Proposed Means of Financing

Particulars	Amount (Rs. in lakhs)	%
Promoter's contribution		
Equity Share Capital (please give break-up of sources)		
Internal Accruals (please give break-up of sources)		
Unsecured Loan/ Subordinated Loan (Principal and Interest payable after repayment of IREDA's Loan)		
From Promoters, friends, relatives & their associates		
Others, if any - specify		

Term Loan Proposed		
From IREDA		
From Others (please give details like name of agency/bank, loan amount, interest rate, moratorium, repayment period and current status of sanction)		
Subsidy, if any*		
Others if any, please specify		
Total Project Cost		

* (Capital subsidy if available will reduce IREDA's loan)

3.3 Purpose of the proposed project

a) Captive Consumption	
b) Selling power to sister concern/subsidiary company	
c) Selling power to a utility*	
d) Selling to third party	
(* Please enclose copy of Power Purchase Agreement, as applicable. In case of sale to third party, please enclose copies latest 3 years Annual report of the Company whom you propose to sell power)	

3.4 Implementation Schedule : Give PERT Chart separately

Event	Expected date of Completion
Land Acquisition	
Finalisation of Procurement Contract	
Completion of Civil Work	
Delivery of Equipments	
Installation of Equipment	
Test Run	
Technical Commissioning	
Commercial Commissioning	

3.5 Fund Drawl Schedule

Amount	Expected date of Drawl	IREDA Loan	Promoters' Contribution

3.6 Expected month & year of commissioning : _____

3.7 Assumptions taken for Performance Indicator at point No. 3.7:

a) Rate of Interest, repayment period (incl. Moratorium) for proposed loan from IREDA : _____

b) Rate of Interest, repayment period (incl. Moratorium) for the loan from others, if any : _____

c) Plant Load Factor for the Plant :

d) Auxiliary Power Consumption :

e) Net Power available for sale/consumption in Million Units :

f) Tariff Rate escalation per annum : _____

g) Fuel cost escalation per annum :

h) Annual O & M Charges : _____

i) Annual escalation of O & M Charges : _____

j) Wheeling Charges, if applicable

k) Depreciation Buildings : _____

l) Depreciation Plant and Machinery : _____

m) Corporate Tax : _____

n) Minimum alternate tax

o) Any other (Please Specify) : _____

3.8 Performance Indicators :

a) IRR : _____

b) DSCR (Average) : _____

c) Pay Back Period : _____

(Please enclose detailed cash flow statements if the same are not annexed with the DPR)

4.0 ENVIRONMENTAL BENEFITS

4.1	Major environmental issues (e.g, forest, land, water, pollution)	
4.2	Area of forest/ agricultural/ tribal land, if any required for the project	
4.3	Is there any village irrigation scheme in the canal/ river/ or any other source from which water is proposed to be drawn	
4.4	Details on afforestation/ deforestation by the project implementation	
4.5	Area/ methodology for fly ash/ effluent any other waste material disposal	

5.0 SOCIAL BENEFITS

	Particulars	During Construction	After Implementation
5.1	Total Direct Employment		
5.2	Total Indirect Employment		
5.3	Average Monthly Income Person (Rs.)		
5.4	Details of any families, affected/displaced by the project		
5.5	Details of social benefits envisaged through the proposed project		

6.0 SECTOR SPECIFIC APPROVALS /DOCUMENTS

Documents/Papers	Obtained/ Enclosed	To be Applied
Approval of SEB/State Govt, if any for the proposed project		
Water Allocation for the project		
Pollution & Environment clearance		
Clearance for chimney height		
PERT Chart and Organisation Chart		
Schematic diagram of the process/system		
EIA Report, if applicable		
Power Purchase Agreement, if sale of power is involved		
Fuel Supply Agreement		
MOU/Agreement with third party etc		
Copy of Order/Agreement already entered into for installation		
Customer reference list of the proposed supplier of major equipment		
Performance Guarantee from Equipment manufacturer		
Copy of Tender floated/Enquiries made regarding plant and machinery		
Summary of the budgetary officers for main plant & machinery		
Note outlining reasons for selection of any particular machine supplier or technology supplier		
Copy of Agreement for Sale/Lease of Land		
Other State/Central Govt, approvals, if any		
Other Clearances (Please Specify)		

Place :

Date :

Signature : _____

Name & Designation : _____

Rubber Stamp : _____