Revised Monitoring plan for UN0347
Version 1
25-04-2008

Project Title: Chambal Power Limited's (CPL) proposed 7.5 MW biomass based power project at Rangpur, Kota District, Rajasthan, India

D.3 Data to be monitored:

a) Parameters affecting emission reduction of project activity

ID number	Data type	Data variable	Data unit	Measured(M) calculated(C) estimated(E)	Recording frequency	Proportion of data to be monitored	How will the data be archived? (electronic/ paper)	For how long is archived data to be kept?	Comment
D.3.a.1.	Power	Total electricity generated	kWh	M	Shiftwise	100%	Electronic	3 years after issue of CER	Measured in plant premises and monitored and recorded continuously through DCS. Manufacturers of equipments should be of repute.
D.3.a.2.	Power	Auxiliary consumption	kWh	M	Shiftwise	100%	Electronic	3 years after issue of CER	-
D.3.a.3.	Power	Power export	kWh	M	Shiftwise	100%	Electronic	3 years after issue of CER	As per PPA with RSEB
D.3.a.4	Emission Factor	Northern Grid CO_2 emission Factor	tCO_2/ MWh	C (calculated by Central Electricity Authority latest	Annual	-	Electronic	3 years after issue of CER	The weighted average grid emission factor (including imports) for the Northern Grid given by CEA shall

ID number	Data type	Data variable	Data unit	Measured(M) calculated(C) estimated(E)	Recording frequency	Proportion of data to be monitored	How will the data be archived? (electronic/ paper)	For how long is archived data to be kept?	Comment
				published report)					be used each year for emission reduction calculations. In case this data is not available for a particular year from CEA, then this factor will be computed using published data as per ACM0002.

b) Parameters affecting leakage emissions from project activity

ID number	Data type	Data variable	Data unit	Measured (m), calculated (c) or estimated (e)	Recording frequency	Proportion of data to be monitored	How will the data be archived? (electronic/ paper)	For how long is archived data to be kept?	Comment
D.3.b.1	Fuel	Biomass Quantity	MT	Measured	Daily	100%	Paper	3 years after issue of CER	
D.3.b.2	Fuel	Biomass calorific value	Kcal/Kg	Measured	Fortnightly	-	Paper	3 years after issue of CER	Through sample testing
D.3.b.3	Fuel	Coal quantity	MT	Measured	Daily	100%	Paper	3 years after issue of CER	
D.3.b.4	Fuel	Coal calorific	Kcal/Kg	Measured	Once	Grab sample	Paper	3 years after issue	Through sample testing

ID number	Data type	Data variable	Data unit	Measured (m), calculated (c) or estimated (e)	Recording frequency	Proportion of data to be monitored	How will the data be archived? (electronic/ paper)	For how long is archived data to be kept?	Comment
		value						of CER	
D.3.b.5	Distance	Distance of procurement	Km	Calculated	Daily	100%	Paper	3 years after issue of CER	
D.3.b.6	Mileage	Mileage of vehicle	Km/litre	Estimated	Monthly	-	Paper	3 years after issue of CER	
D.3.b.7	Density	Density of fuel	Kg/liter	Measured	Once	-	Paper	3 years after issue of CER	Through sample testing
D.3.b.8	Volume	Capacity of vehicle	MT	Measured	Once	-	Paper	3 years after issue of CER	

D.4. Qualitative explanation of how quality control (QC) and quality assurance (QA) proceduresare undertaken:

Data	**Uncertainty level of Data (High/Medium/Low)**	**Explain QA/QC procedures planned for these data, or why such procedures are not necessary.**
D.3.a.1	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.a.2	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.a.3	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.a.4	Low	No. Since the data variable is calculated by Central

Data	Uncertainty level of Data (High/Medium/Low)	Explain QA/QC procedures planned for these data, or why such procedures are not necessary.
		Electricity Authority (CEA) which is a government body therefore the uncertainty level is very low.
D.3.b.1	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.b.2	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.b.3	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.b.4	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.b.5	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.b.6	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.b.7	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.
D.3.b.8	Low	Yes, ISO 9001 or similar type of system will be used and the same procedures are available at the project site.