DAMODAR VALLEY CORPORATION

Bokaro `B' Thermal Power Station
P.O.: Bokaro Thermal - 829 107
Dist: Bokaro (Jharkhand)

Trial Conducted by - Abhitech Energycon Limited - Mumbai

Annexure III

Average Data Sheet For Pre Trial (From 12th April 2007 to 26th April 2007)

				Date
	Pre Thermact Reading Unit No - 2			**Average**
		Symbol	**Unit**	
	Load (Mu's*1000/24)		**MW**	**200.9**
	Total Units Generated		**Mu's**	**4.84**
Proximate Analysis of coal As Fired Basis	Inherent Moisture (ADB)	IM	%	0.90
	Ash	A	%	41.42
	Volatile matter	VM	%	15.53
	Fixed Carbon	FC	%	40.38
	Gross Calorific Value	Q	kcal/kg	4436
	Total Moisture	TM	%	2.67
Ultimate Analysis of Coal As Fired Basis	Sulphur	S	%	0.40
	Carbon	C	%	48.15
	Hydrogen	H	%	2.81
	Oxygen	O	%	1.91
	Nitrogen	N	%	2.64
Unburnts in Ash	Unburnts in bottom ash	UBA	%	19.97
	Unburnts in Fly ash (APH) + (Eco)		%	12.10
	Unburnts in Fly ash ESP(L+R+A)		%	12.46
	Unburnts in Fly ash (Avg) ((APH+Eco) + ESP)/2	UFA	%	12.28
Boiler Parameter	Avg Flue Gas O/L Temp	T	^{o}C	127.39
	Ambient Temp - Dry Bulb	t	^{o}C	30.59
	Ambient Temp - Wet Bulb		^{o}C	22.67
	O_2 at APH O/L	O_2	%	7.08
	CO_2 at APH O/L	CO_2	%	11.93
	N_2 at APH O/L	N_2	%	80.99
EFFICIENCY TABULATION (Heat Loss Method)	**UNBURNT CARBON LOSS**	**UCLOSS**	**%**	10.55
	DRY GAS LOSS	**DGLOSS**	**%**	4.74
	WET GAS LOSS	**WGLOSS**	**%**	3.94
	LOSS DUE TO MOISTURE IN AIR	**MALOSS**	**%**	0.17
	RADIATION LOSS & UNMEASURED LOSS		**%**	0.95
	TOTAL LOSS	**TLU**	**%**	20.34
	BOILER EFFICIENCY		**%**	***79.66***
	Turbine Heat Rate		*kcal/kwh*	***2407.34***
	Unit Heat Rate		***kcal/kwh***	***3024.01***
	Condenser Vacuum		*mmHg*	***-653.56***
	Total Attemp. Flow		***TPH***	***71.63***
	Total Air Flow		***TPH***	***781.82***

For ***BOKARO `B' THERMAL POWER STATION*** For ***Abhitech Engergycon Limited***

15/6/07

(R.K. Anubhav)
GG(M) DEPUTY SUPERINTENDENT
D.V.C. Bokaro Thermal (Bokaro)

15/6/07

DAMODAR VALLEY CORPORATION

Bokaro `B' Thermal Power Station
P.O.: Bokaro Thermal - 829 107
Dist: Bokaro (Jharkhand)

Trial Conducted by - Abhitech Energycon Limited - Mumbai
Annexure IV

Average Data Sheet For Post Trial (From 2nd May 2007 to 8th June 2007)

	Post Thermact Reading Unit No - 2	Symbol	Unit	Date Average
	Load (Mu's*1000/24)		**MW**	**193.9**
	Total Units Generated		**Mu's**	**4.66**
Proximate Analysis of coal As Fired Basis	Inherent Moisture (ADB)	IM	%	0.96
	Ash	A	%	38.82
	Volatile matter	VM	%	15.95
	Fixed Carbon	FC	%	42.29
	Gross Calorific Value	Q	kcal/kg	4654
	Total Moisture	TM	%	2.94
Ultimate Analysis of Coal As Fired Basis	Sulphur	S	%	0.40
	Carbon	C	%	50.28
	Hydrogen	H	%	2.91
	Oxygen	O	%	1.91
	Nitrogen	N	%	2.75
Unburnts in Ash	**Unburnts in bottom ash**	**UBA**	**%**	**14.06**
	Unburnts in Fly ash (APH) + (Eco)		**%**	**8.44**
	Unburnts in Fly ash ESP(L+R+A)		**%**	**9.20**
	Unburnts in Fly ash (Avg) ((APH+Eco) + ESP)/2	**UFA**	**%**	**8.82**
Boiler Parameter	Avg Flue Gas O/L Temp	T	^{o}C	122.20
	Ambient Temp - Dry Bulb	t	^{o}C	31.84
	Ambient Temp - Wet Bulb		^{o}C	23.08
	O_2 at APH O/L	O_2	%	6.51
	CO_2 at APH O/L	CO_2	%	12.57
	N_2 at APH O/L	N_2	%	80.92
EFFICIENCY TABULATION (Heat Loss Method)	**UNBURNT CARBON LOSS**	**UCLOSS**	**%**	6.68
	DRY GAS LOSS	**DGLOSS**	**%**	4.40
	WET GAS LOSS	**WGLOSS**	**%**	3.88
	LOSS DUE TO MOISTURE IN AIR	**MALOSS**	**%**	0.16
	RADIATION LOSS & UNMEASURED LOSS		**%**	0.95
	TOTAL LOSS	**TLU**	**%**	16.07
	BOILER EFFICIENCY		**%**	***83.93***
	Turbine Heat Rate		*kcal/kwh*	***2408.02***
	Unit Heat Rate		***kcal/kwh***	***2870.47***
	Condenser Vacuum		*mmHg*	***-647.02***
	Total Attemp. Flow		***TPH***	***72.80***
	Total Air Flow		***TPH***	***746.71***

For ***BOKARO `B' THERMAL POWER STATION*** For ***Abhitech Engergycon Limited***

(R.K. Ambhaiya)

15/6/07

15/6/07

उप अधीक्षक
DEPUTY SUPERINTENDENT
(E & M)