

Hiranmaye Energy Limited

(formerly known as India Power Corporation (Haldia) Limited)

Ref No.: HEL/Kol /18-19/ 25

Date of Enquiry 06-10-2018

Enquiry for appointment of service provider for Rate Contract at Discharge Port for Draught Survey, Sampling and Analysis of Coal for M/s Hiranmaye Energy Ltd (HEL) Thermal Power Plant during discharge of Vessel at Haldia Port.

Hiranmaye Energy Ltd (HEL) is operating two units of 150MW at Kasbere, Haldia, Purbo Medinipur, near Haldia Port in West Bengal, India.

HEL is importing coal regularly for use in the above said power plant and from 15-18 October, 2018, it is planned to procure coal **23000 t. (± 10%)** on CIF basis.

It is proposed to appoint suitably qualified, reputed Inspection Agency on Rate Contract basis as Independent Inspection Agency to execute the scope of works on the agreed terms :-

The scope of work is as follows:

1. Draught Survey: Initial and final Draught Survey to assess the quantity of Coal carried by the vessel and issue report of Draught Survey and issue of Certificate of Weight.
2. Sampling and Analysis:
 - a. The Sampling and Analysis shall be done as per the procedures laid down in the ASTM standards and the reporting shall be as per the Annexure 1 appended.
 - b. Systematic collection of samples throughout the discharge operation of the vessel in sub-lot of 4000t.
 - c. Coal samples collection, loading in to double skin bags, sealing, transportation, opening of seals of bags and preparation of samples shall be carried out in presence of representative of HEL. Any queries/objections raised by HEL representatives shall be explained, redressed suitably. After preparation of samples lot-wise and Composite, splits of the sample shall be handed over to HEL for analysis independently by HEL.
 - d. The sample of the coal so collected shall be prepared/ reduced as per the ASTM standards. The sample shall be divided into three parts. One part shall be used by the service provider for analysis, one part shall be given to HEL and other part shall be kept as Umpire sample under Joint Custody. Umpire sample shall be kept preserved for a period of three months.
 - e. The service provider shall carry out the analysis of Coal and provide the Certificate of Analysis for the following parameters on (i) Lot-wise samples and (ii) Composite sample.

CIN - U40105WB2008PLC125220

Registered Office : Plot No. X1 - 2 & 3, Block - EP, Sector - V, Salt Lake City, Kolkata - 700091

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Project Office : Vill - Kasbere, P.O. - Shibrnagar, Haldia, Purba Medinipur, West Bengal, Pin - 721635

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Lot-wise Samples	Composite Sample
Total Moisture(TM) Gross Calorific Value(GCV) on ARB basis Proximate Analysis (on ARB and ADB basis)	Total Moisture(TM) Gross Calorific Value(GCV) on ARB basis Proximate Analysis (on ARB and ADB basis)
Sieve Test (0-1mm, 1-3mm, 3-6mm,6-10mm, 10-20mm 20-50mm and above 50mm)	Sieve Test (0-1mm, 1-3mm, 3-6mm,6-10mm, 10-20mm 20-50mm and above 50mm) Ultimate Analysis
	Ash Analysis
	HGI
	AFT(Reducing Method)

Deliverables:

1. Draught survey report
2. Draught survey certificate
3. Certificate of Analysis (COA)

You are requested to respond to the enquiry for the above mentioned scope of work and give best quote by **09.10.2018** positively.

For, Hiranmaye Energy Limited


Prakash Sethia
President - Coal
Hiranmaye Energy Ltd.



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Annexure 1

The sampling & analysis method shall as per ASTM standards and reported in the formats as mentioned below

SAMPLING DETAILS

1	Date of Commencement of sampling	:	
2	Date of completion of Sampling	:	
3	Location of Sampling.	:	
4	Method of sampling and Sample Preparation	:	ASTM : D2234/2234 M ASTM : D2013

CHEMICAL COMPOSITION

		Test Method	:	Test Result	Unit
1	Inherent Moisture(IM)(ADB)	ASTM D:3173	:		PCT
2	Volatile Matter (VM)(ADB)	ASTM D:3175	:		PCT
3	Ash(ADB)	ASTM D:3174	:		PCT
4	Fixed Carbon (FC)(ADB)	BY DIFFERENCE	:		PCT
5	Gross Calorific Value (ADB)	ASTM D:5865	:		K.Cal/Kg.
6	Gross Calorific Value (ARB)	ASTM D:5865	:		K.Cal/Kg.
7	Sulphur (S) (ADB)	ASTM D:4239	:		PCT

1	TOTAL MOISTURE (ARB)	ASTM D 3320-15	:		PCT
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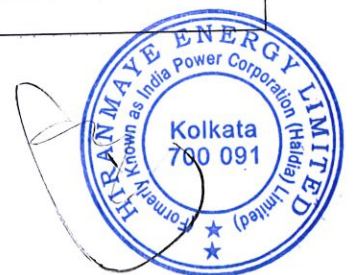
PHYSICAL PROPERTIES

SIZE ANALYSIS: ASTM 4743-87

1	+50 mm	:		PCT
2	+20 mm	:		PCT
3	+10 mm	:		PCT
4	+6 mm	:		PCT
5	+3 mm	:		PCT
6	+1 mm	:		PCT
7	-1 mm	:		PCT

ULTIMATE ANALYSIS :

	PARAMETER	METHOD OF ANALYSIS	RESULT (ADB)
1	Carbon	ASTM D 5373	
2	Hydrogen	ASTM D 5373	
3	Nitrogen	ASTM D 5373	
4	Sulphur	ASTM D 4239	
5	Oxygen	ASTM D 3176	



FUSIBILITY OF COAL ASH

(Reducing Atmosphere as per ASTM standard D 1857-04)

	PARAMETER	RESULT
1	Initial Deformation Temperature	
2	Softening Temperature	
3	Hemispherical Temperature	
4	Fluid temperature	

Hard Grove Grindability Index (HGI) : ASTM D 409/409M-12

ASH ANALYSIS :- ASTM D 3174-12

	PARAMETER	RESULT in PCT
1	SiO ₂	
2	Al ₂ O ₃	
3	Fe ₂ O ₃	
4	CaO	
5	MgO	
6	TiO ₂	
7	Mn ₃ O ₄	
8	P ₂ O ₅	
9	Na ₂ O	
10	K ₂ O	
11	SO ₃	

