



खनिज एवं पदार्थ प्रौद्योगिकी संस्थान
INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY

(Formerly Regional Research Laboratory)

वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद

Council of Scientific & Industrial Research

भुवनेश्वर - 751013, ओडिशा, भारत, Bhubaneswar - 751013, Orissa, INDIA

SB/PE&I/AREPL/ECO-XL New

Dated 07.05.2014

To
Mr. Ashwin Patel
Alpha Renewable Energy Pvt. Ltd.
Vasna, Anand, Gujarat.

Subject: Test Reports for the new Eco-XL Stove, Serial No. 24030001 , Forced Draft, domestic sized

Dear Mr. Patel,

A portable Forced draft wood fired ECO-XL new which was received by us on 22/04/2014 from M/s **Alpha Renewable Energy Pvt. Ltd.,Gujrat** was tested at CSIR-IMMT Bhubaneswar as per revised BIS standard Aug 2013. The test results have been communicated to MNRE. The average values for the different parameter studied as follows:

Power Output: 1.37 kW	(Fuel Burning Rate: 0.76 kg/hr),
Efficiency: 34.77 %	
PM: 40.56 mg/ MJd,	CO: 1.83 g/MJd
Body Temperature : 77 °C	Handle Temperature : 44 °C

The stove has met all the parameters as per the new protocols set by the revised BIS for Forced Draft Biomass Cookstoves.

With regards
Thanking you.

Yours sincerely

Snehasis Behera

Snehasis Behera
Principal Scientist
PI, CSIR-IMMT Bhubaneswar