

HANUMAN AGRO INDUSTRIES LTD.

REGD. & CORPORATE OFFICE: NICCO HOUSE, BLOCK 'C', 6TH FLOOR, 2, HARE STREET, KOLKATA-700 001, INDIA
TEL.: (033) 22481420, 22486507, 22430025, 22437368 FAX: (0091) (33) 22209807, E-Mail: hail@cal.vsnl.net.in

HAIL/KOL/1033/FEB./2004-2005

Dt. 08-02-2005

M/s. Cheema Boildrs Ltd.
SCO 66, Phase 3B2
Mohali
Chandigarh - 160 059

For kind attn : of Mr. Rajesh Singla. Dy Manager (Marketing)

Dear Sirs,

In reference to your Qtn. No. CBL/21K/2004-2005 dated 17-12-2004, your subsequent visit to our Kolkata Office along with your Team, as discussed/finalized with you and our LOI dt. 31-01-2005 we are pleased to place an order with you as per the details given in the enclosed Annexures, duly stamped and signed by us.

We are sure, you will live up to your reputation and would not let us down and ensure quality and timely supplies to give the rated trouble free output as confirmed by you. Needless to say, Material of construction, Workmanship, Bought out items etc. etc., which you have repeatedly assured us will be of International standards.

Looking forward to a long and prosperous business relation with you and your company.

Thanking you,

Yours faithfully,
For Hanuman Agro Industries Limited


Director.

Encl : As above.

PAPER PLANT : VILLAGE, PARAGAON, NAWAPARA—RAJIM, DIST. RAIPUR-493 885, (CHATTISGARH)

TEL.: (07701) 233219, 233922 FAX: (07701) 233689

RAIPUR OFFICE : APARTMENT NO. 8, 2ND FLOOR, LALGANGA APARTMENTS, MOUDHAPARA, RAIPUR-492 001 (CHATTISGARH)

TEL.: (0771) 2223510, 2223520

DESIGN BASIS

| | | |
|---|---|--|
| Type | : | Outdoor, Natural circulation, Water tube, Fluidised bed combustion, Under bed firing boiler. |
| Design code | : | IBR 1950 with latest amendments |
| Steam boiler (Kg/hr.) | : | 22000 (exportable) |
| Steam pressure (Kg/cm ²) | : | 45 |
| Steam temperature (Deg.C) | : | 440 +/- 10 |
| Outlet flue gas temp. (Deg.C) | : | 165 - 170 |
| Water temp. at economizer inlet (Deg. C) | : | 120 |
| Fuel | : | 100 % Rice husk |
| | : | 100 % Coal |
| NCV (K.Cal/kg.) - Rice husk | : | 3150 |
| GCV (K.Cal/kg.) - Coal | : | 3400 |
| Fuel sizing - Rice husk | : | As available |
| - Coal | : | Less than 6 mm |
| Boiler efficiency - Rice husk | : | 82 +/- 2 % |
| - Coal | : | |
| | : | 83 +/- 2 % |
| Start up fuel | : | Charcoal mixed with Diesel |
| Relative humidity (%) | : | 58 |
| Ambient temp. (Deg. C) | : | |
| - Efficiency | : | 30 |
| - Insulation | : | 48 |
| - Electrical | : | 48 |
| Electrical data | : | |
| - LT Volt (V) | : | 415 ± 10% |
| - Control Volt (V) | : | 220 ± 10% |
| - Frequency (HZ) | : | 50 |
| Compressed air pressure (Kg/cm ²) | : | 6 (Oil and Moisture free) |

