



# HANUMAN AGRO INDUSTRIES LTD.

Paper Plant : Village : PARAGAON, NAWAPARA - RAJIM, DIST. RAIPUR - 493885 (C.G.)  
TEL. : (07701) 233219, 233406 . (FAX : (++91) (+7701) 233689

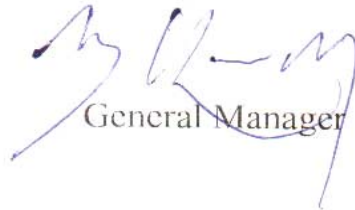
Raipur Off. : 8th Chamber's, 2nd Floor, Ialaganaga Chamber's, Moudhapara, RAIPUR - 492001 (C.G.) : 2223510/2223520

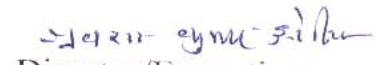
## Calculation of Boiler Efficiency

Description	Unit	2001	2002	2003	2004	2005	2006	Source of Data
Steam Generation	MT	67653	66968	72789	69631	66292	75240	Boiler Log Book
Coal Consumption	MT	13456	13608	14499	14371	13531	16076	Bin Card
Steam Enthalpy	Kcal/kg	665	665	665	665	665	665	Calculated
Feed Water Temperature	<sup>o</sup> C	85	85	85	85	85	85	Measured
Average NCV of Coal	Kcal/kg	3800	3800	3800	3800	3800	3800	Estimated
Boiler Efficiency		76.7%	75.1%	76.6%	74.0%	74.8%	71.4%	Calculated
<b>Average Boiler Efficiency</b>		<b>75%</b>						

Formula = Boiler Efficiency ( $\eta$ ) =  $\frac{\text{Steam Quantity} \times (\text{Steam Enthalpy} - \text{Feed Water Temperature})}{\text{Coal Consumption Quantity} \times \text{Calorific Value of Coal}}$

  
Boiler Incharge

  
General Manager

  
Director/Executive