

## Query

**The PDD requires use of weighted average emission of current generation mix option for calculating the baseline emission factor, which was also validated. However the verification report mentions on page 11 that this parameter is taken from the PDD. Further clarification is required how the DOE verified that the baseline emission factor was calculated in accordance with the PDD.**

## Reply

As per the registered PDD, the baseline emission factor was calculated based on the weighted average of state grid generation mix of Andhra Pradesh which was estimated for the entire crediting period. For the current monitoring period of 2006-07, the weighted average emission factor was estimated to be 0.731 tCO<sub>2</sub>/MWh (as per the registered PDD).

During the preparation of the PDD and registration of the same with UNFCCC there was no data available on the emission factors on the public domain at the country level (India). In November 2006, Central Electricity Authority (CEA), under the Ministry of Power - Government of India, published the first version of the baseline emission factor database based on the ACM0002 which was publicly available on CEA website<sup>1</sup>.

As per data published by CEA, the weighted average emission factor for Southern Regional Grid (applicable for project activity under consideration) for the year 2006-07 is 0.721 tCO<sub>2</sub>/MWh. The emission factor considered during the calculation of emission reductions for the monitoring period was 0.731 tCO<sub>2</sub>/MWh. The three years average of the emission factor from the CEA database is 0.747 tCO<sub>2</sub>/MWh and the emission factor estimated as per the registered PDD is conservative than the CEA database.

Therefore, the weighted average emission factor used for the calculation of emission reductions was taken from the registered PDD (i.e. 0.731 tCO<sub>2</sub>/MWh). The same method was used during the first two issuance requests (i.e. for monitoring periods 2002 – 2005 and 2005 – 06) and the CERs were issued by the EB of UNFCCC.

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<sup>1</sup> <http://www.cea.nic.in/planning/c%20and%20e/Government%20of%20India%20website.htm>