

United Nations Development Programme – INDIA
CPAP 2008-2012
Annual Work Plan 2011 (January - December)



Project Title: **Removal of Barriers of Energy Efficiency Improvement in Steel Re-Rolling**

Award ID: **34823**

Project ID: **37247**

Project Start and end date: **September 2004 to December, 2012**

Corresponding CP Outcome(s): **Progress towards meeting national commitments under multilateral environmental agreements**

Corresponding CP Output(s): **Supporting national development objectives with co-benefits of mitigating climate change**

Project RESULTS description as outlined in approved project brief:

Project outputs	Indicators	Baseline
1. Benchmarks for EcoTech Options & Packages Established	1.1 Industry complies with energy cum environmental performance benchmarks set in respect of model units	No benchmarks Approach paper prepared Targets: Studies in SRRM Sector to develop Benchmark & labels & standards
	1.2 Techno-economic viability including cost recovery (CCE, IRR, paybacks, BEP, etc.) is established	Techno-economic viability has been demonstrated by 3 completed model units
	1.3 Energy labels and standards Minimum energy performance standards (MEPs), design and manuals after successful implementation of model units and monitoring and evaluation of the EE performance of 10 model units Design standard and manual of EE equipment Best practice EE norms based on 15 model units implemented by the 3 rd year of the project.	No MEPS No Standard and manual of EE equipment No best practice EE norms (Project profiles have been made for the 8 commissioned units in 2009.)
	1.4 Information module developed and disseminated	Information module is not available. Information module developed and disseminated by the end of 18 months of the start of the project. [(32 modules (13 nos. on reheating furnaces and 19 on rolling mills) have been developed. An animated CD on Eco-tech was prepared and distributed. Information on Eco Tech Option has been published on the project website.]
2. Strengthened Institutional Arrangements for	2.1 Development of Business support network	No existing network [Six resident missions established in Raipur, Kolkata, MGG, Chennai, Pune and Delhi]

N.R. Raju

energy efficiency promotion in SRRM		
	2.2 Internationally linked institutional capacity	No institutional capacity [visits were organised to units in China for learning. Unit owners are in direct contact with suppliers of technologies from abroad]
	2.3 Software centres at Mandigovind Garh and Delhi respectively	No such centers [Software packages are established in Delhi. TIRFAC hardware centre was recommended to be dropped in the mid term evaluation of the project]
	2.4 Design, standards and implementation manuals put in practice	No manuals [19 different types of manuals (both in English and Hindi language) have been prepared and distributed to all the SRRM units.]
3. Effective Information Dissemination Program	3.1 Building with infrastructure setting up the knowledge center Completion reports documenting improvements in model units. 3.2 Frequency at which Knowledge portal is updated	No knowledge Centre Baseline:5.0 (2009) Target: 10 (2010) Baseline : Quarterly (2009) Target: Monthly (2010)
	3.2 Preparation of detailed project plan	No DPP [Completed and reported for selected model units]
	3.3 System design, network alliance and mechanism	Not available
	3.4 information dissemination and knowledge center operationalised	No center [Some knowledge products have been developed]
4. Enhanced Stakeholders Capacity in energy efficiency in SRRM sector	4.1 Mapping of each cluster and assessment of technology resources and capacity building needs Inception workshops/ awareness workshop	No activity to enhance stakeholder capacity
	4.2 Master plan for capacity building activity finalised	Not available [completed]
	4.3 5 cluster workshops for units/DEMs/consultants on new technologies and technology management	No activity to enhance stakeholder capacity [3 nos. of technology interactive meetings held at Pondicherry, Guwahati, Bhilai.]
	4.4 10 workshops for unit owners/managerson cooperative management practices and procurement process in 5 clusters	No activity to enhance stakeholder capacity [completed]
	4.5 Standard Operating Practices (SOP) and Standard Maintenance Practices (SMP)	No activity to enhance stakeholder capacity [3 base documents on SOP and SMP prepared. SOP and SMP in practice in 5 units]
	4.6 Best practices program developed and implemented	No activity to enhance stakeholder capacity [Implementation of 5S lean management

		completed in 8 units as planned, 10 energy audits completed]
	4.7 Three study tours of DEMs/consultants organised to developed countries for providing exposure to similar industrial set up	No activity to enhance stakeholder capacity [2 international tours completed]
5. Feasibility of ET Options and technology packages established	5.1 Eco tech packages implemented and operationalised in 30 units	No packages [15 units commissioned]
	5.2 Documentation of lessons learned in implementation of technology packages	None available
	5.3 Multiplication strategy (Clusterwise mapping of energy efficiency issues concerns and targets, financial linkages and techno-economic modelling of EE options, energy and environment study of selected non-sample units, development of investment pipeline project	None available
6. Energy Service Company - ESCO and third party financing TPF	6.1 Development of performance contracting mechanism Implementing it in 7 units	No such activity
7. TIRFAC Established	7.1 Monitoring and evaluation plan along with reporting procedures finalised.	Not available [pre and post implementation measurements are part of the monitoring and evaluation plan. This has been conducted in 5 of the 15 nos. of completed units]
	7.2 Software center at TIRFAC Hardware center at TIRFAC	Software center established at TIRFAC. Mid term review recommended dropping of Hardware center

Note: In column 3, the content given in square bracket is the progress made in project till now.

N.R. Raj...

Project budget and AWP 2011 BUDGET (in USD):

Period	UNDP funds	Government funds	Donor funds*	Total
Project duration	6,750,000	7,280,000	NIL	14,030,000
2011 (1 Jan to 31 Dec)	1,271,013	735,231		2,006,244

*Mention donor between brackets

Project budget, Actual Expenditure, and AWP 2011 (GEF-UNDP)

Project budget	Actual Exp in 2004	Actual exp in 2005	Actual exp in 2006	Actual exp in 2007	Actual exp in 2008	Actual exp in 2009	Actual exp. 2010
6,750,000	39353	374684	32596	677120	802111	630902	758,392

Agreed by (Implementing Partner):

N.R. Raj

N.R. Dash, NPC-Steel Project 17-2-2011

Agreed by UNDP:

Caitlin Wiesen
Caitlin Wiesen
 UNDP Country Director

Udai Pratap Singh

उदय प्रताप सिंह/UDAI PRATAP SINGH
 संयुक्त सचिव/Joint Secretary
 इस्पात मंत्रालय/Ministry of Steel
 भारत सरकार/Govt. of India

AWP 2011

Project Outputs	Targets 2011	RESPONSIBLE PARTY	Indicative month of completion	Account Code	Activity Budget (USD)
Output 1. Benchmarks for Eco-Tech Options & Packages Established	1.1 Bench marking studies in 8 Model units, Labels & Standards of Major equipment & LCA in 2 units	To be identified (tbi)	4 units in each quarter, i.e. March, June, Sept, and Nov 2011	71200, International consultants	29705
				71300 Local consultants	25000
	Sub-total				54705
Output 2: Strengthened Institutional Arrangements for energy efficiency promotion in SRRM	2.1 Continuation of support Resident Mission in each Clusters [6 nos]	Six resident missions	Mar-11	71300 Local consultants	87527
	Sub-total output 2				87527
Output 3 Effective Information Dissemination Program	3.1 Documenting improvements in 6 regional model units with different technologies along with unit brochures (Multi-media film) (PMC/UNDP)	Tbi	Jan – Nov 2011	71300 Local consultants	5000
				72100 Contractual services	38764
3.2	Publicizing through multimedia, video clipping, radio, etc. PMC/ UNDP	tbi	Dec 2011	71400 Contractual services	10941
3.3	Completion Report of Model Units, including lesson learnt	tbi	June 2011	71400 Contractual services	6565
3.4	Video conferencing Installation	Tbi	May 2011	71400 Contractual services	13129
3.5	Website Up-gradation (Every Quarter) & Hosting of website for 10 Yrs	Tbi	Quarter wise updates, i.e. March, June, Sept, and Nov 2011	71600 Contractual services	4376
3.6	Dissemination of SOP & SMP in soft copy	Tbi	August 2011	71600 Contractual services	2188
3.7	Process documentation (PMC/ UNDP)	tbi	Nov 2011	71200 Contractual services	21881
3.8	Project Brochure with Fact Sheet (PMC/ UNDP)	tbi	March 2011	71400 Contractual services	4376
3.9	Knowledge Sharing in International Conferences and visit of Energy Efficient Units Abroad	PMC	Jan- Dec 2011	71300 Local consultants	21882
	Sub-total output 3				129102

Project Outputs	Targets 2011	RESPONSIBLE PARTY	Indicative month of completion	Account Code	Activity Budget (USD)
Output 4 Enhanced Stakeholders Capacity in energy efficiency in SRRM sector	4.1 On Job training for plant personnel (10 units)	Tbi	5 units Jan to June 2011 5 units July to Dec 2011	72100 Contractual services	164114
4.2	Implementation of ISO 9001 & 14001(10 Units)	Tbi	5 units Jan to June 2011 5 units July to Dec 2011	72100 Contractual services	164114
4.3	Electrical Energy Audit for 10 model units	Tbi	2 units in 1 st Quarter, 3 units in 2 nd Quarter, 3 units in 3 rd Quarter, 2 Units in 4 th Quarter	72100 Contractual services	10941
4.4	Awareness Workshop/ Interactive Workshop/ Technical Workshop for Units, DEMs, Consultants [4 Nos]	Tbi	1 each Quarter	72100 Contractual services	65646
4.5	Roll Pass Design (RPD) training/ workshop in South cluster for 5 days.	Tbi	Sep 2011	72100 Contractual services	10941
4.6	Implementation of RPD Workshop and Report generation	Tbi	Sep 2011	72100 Contractual services	10941
4.7	Training of professional energy service providers, professionals from industrial and institutional such as Energy Auditors and Energy Managers (2 programmes for 30 members each)	Tbi	Jun-11	71300 Contractual services	21882
4.8	Participation in Technology Exhibition cum Workshop (organized by other organization)	PMC	Jan- Dec 2011	71300 Contractual services	10941
	Sub-total output 4				459520
Output 5. Feasibility of ET Options and technology packages established					
	5.1 Selection of 10 Model Units	PMC (Gol funds USD 10941)	June 2011		
5.2	Establishment of baseline parameters in 15 Model units	PMC (Gol funds 65646)	Jan - Oct 2011		

Project Outputs	Targets 2011	RESPONSIBLE PARTY	Indicative month of completion	Account Code	Activity Budget (USD)
5.3	Supervision of Implementation of 15 Model Units	PMC (Gol funds USD 6565)	Jan- Dec 2011		
5.4	Establishment of post implementation parameters in 15 units	PMC (Gol funds 65646)	5 per Quarter (for the 1 st three Quarters)		
5.5	Release of Capital Subsidy (6 model units)	PMC (437637 to be released by GOI)	To be released in the 1st three Quarters		
5.6	Consultancy Fee (6 model Units)	tbi	To be released in the 1st three Quarters	72100 Contractual services	65646
5.7	Study report on replication of E.E. Technologies	Tbi	Jun-10	72100 Contractual services	76586
	Sub-total Output 5				142232
Output 6: Energy Service Company - ESCO and third party financing TPF	6.1 Implementation of ESCO, study in SRRM based on recommendation of workshop & implementation in 3-units	Tbi	Sep 2011	71300	15317
	Sub-total output 6				15317
Output 7: Technology Information Resource and Facilitation Centre Established	7.1 Development of use of Biomass with Jatropa cake PMC/UNDP	tbi	Jan- Sep 2011	71300	21882
7.2	Development of Feasibility Reports for 10 Pipe line units	Tbi	Jan - Sep 2011	71300	175055
	Sub-total Output 7				196937
Output 8: Project Management Cell (PMC)	8.1 Cost of Salaries of NPPs	PMC	Jan to Dec 2010	71300	153173
8.2	Cost of Salaries of Staff	PMC (USD 39387 by Government funds)	Jan to Dec 2010		
8.3	Reporting / Running Expenditure / Net Working / Admin purchase of additional P.C./ Miss. Etc. (Annexure - I)	PMC (USD 109409 by Govt. funds)	Jan to Dec 2010		
	Sub-total: Output 8				153173
	Total				1238513

Project Outputs	Targets 2011	RESPONSIBLE PARTY	Indicative month of completion	Account Code	Activity Budget (USD)
	ISS	UNDP			2500
	M&E, Audit, Communication, analytical reports (through interns) and technical support	UNDP			30000
	Sub-total 8				32500
	Grand-total				1271013

Notes:

Account codes

- 71200 International consultants
- 71300 Local consultants
- 71400 contractual services
- 71600 Travel
- 72100 Contractual services
- 72200 Equipment and Furniture
- 72300 Material & Goods
- 72400 Communication & Audio visual equipment
- 72500 Supplies
- 72700 Hospitality
- 72800 Information technology equipment
- 73000 Overhead expenses
- 74000 Miscellaneous and operating expense (audit, legal, professional services, etc.)
- 75000 Facilities and Administration

Fund flow arrangement

Ministry of Steel has established Project Management Cell, PMC-Steel to exclusively implement the project. The PMC has opened a bank account in the name of the project. The funds (as has been practiced since 2004) will be transferred to this account through a FACE signed by NPD (Joint Secretary, Ministry of Steel) or NPC (Director, Ministry of Steel) of the project. Funds will be transferred to the following account;

Bank account number: 06292151025863
 Bank Name: ORIENTAL BANK OF COMMERCE
 Branch: BATRA HOSPITAL

N.R. Dash
 17/2/11 (N.R. Dash)
 NPC for Steel Project

[Signature]
 17/2/2011
 उदय प्रताप सिंह/UDAI PRATAP SINGH
 संयुक्त सचिव/Joint Secretary
 इस्पात मंत्रालय/Ministry of Steel
 भारत सरकार/Govt. of India