



Environmental and Social Quarterly Monitoring Report

Project Number: 43903 (Loan 2722)
March 2012

PAKISTAN: Uch-II Power Project Environmental and Social Development Quarterly Monitoring Report (Q1 2012)

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Asian Development Bank

ENVIRONMENTAL AND SOCIAL MONITORING REPORT

Q1 - 2012

A	Project/Business Name and Summary Information	
	Development of 404 MW Gas Fired Combined Cycle Power Plant by Uch-II Power (Private) Limited	
(i)	<i>Location of project/business</i>	Dera Murad Jamali, Baluchistan, Pakistan
(ii)	<i>Nature</i>	Construction, commissioning and operation of gas fired combined cycle power plant
(iii)	<i>Scale/size</i>	404 MW (ISO Gross Rating) 2 Gas Turbines x 01 Steam Turbine
(iv)	<i>Date of construction/operation commencement</i>	EPC Contractor started construction activities (mainly Excavations and piling of buildings, raw water and waste water ponds) in the period under review
(v)	<i>Name, designation and signature of person responsible for preparing/reviewing the report</i>	Fida Muhammad Khan, Manager HSE Uch-II / Babar Saeed Khan, Construction Manager Uch-II
B	Relevant Environmental Permits or Compliance Certificates	
(i)	<i>Summary of permit conditions & media(s) covered</i>	No Objection Certificate
(ii)	<i>Issue by which government Agency</i>	Baluchistan Environmental Protection Agency (BEPA)
(iii)	<i>Issuance date and duration of validity</i>	December 9, 2010 (one time issuance with no requirement for revalidation)
(iv)	<i>Renewal requirements</i>	None
C	Incidents of Violations or Non-Compliance	
(i)	<i>Recorded date and responsible agencies</i>	None
(ii)	<i>Nature of non-compliance</i>	None
(iii)	<i>Violation or non-compliance based on what environmental standards and regulations</i>	None
(iv)	<i>Recorded dates and authorities</i>	None
(v)	<i>Media or community reactions (if any)</i>	None
(vi)	<i>Corrective actions, deadlines, identification of responsible parties</i>	N/A
	<i>(a) short-term: remedial action</i>	None
	<i>(b) long-term: preventative measures</i>	None
D	Incidents of Environmental and Safety Accidents	
(i)	<i>Incident recorded dates and responsible agencies,</i>	None
(ii)	<i>Scale of damage and injury (if any)</i>	None
(iii)	<i>Authorities in charge of investigation/recording</i>	None
(iv)	<i>Media or community reactions (if any)</i>	None
(v)	<i>Corrective actions, deadlines, identification of responsible parties</i>	None
	<i>(a) short-term: remedial action</i>	None
	<i>(b) long-term: preventative measures</i>	None
E	Labour Relations and Conditions	
(i)	<i>Nature of labour dispute or grievance</i>	None reported by EPC
(ii)	<i>Legal requirements, Permit conditions and renewal requirements</i>	None
(iii)	<i>Authorities in charge of investigation/recording</i>	EPC contractor responsible for managing its labour relations and conditions.
(iv)	<i>Media or community reactions (if any)</i>	None

(v)	Corrective actions, deadlines, identification of responsible parties	None	
(vi)	Labour relations and living conditions for construction labour force	None	
F	Environmental Capacity		
(i)	Staff capacities in environmental management (as relevant)	(i) EPC HSE Manager / HSE Engineers, supervisors (a team of 06 HSE staff members are available on construction site looking after HSE functions (ii) Uch-II HSE Manager supported by UPL O&M Team. In addition EHS Officer recruitment process finalized and HSE Officer to assume his duties in first week of April 2011. (iii) Owners Engineer Independent H&S Auditor	
(ii)	Degree of awareness of: (i) environmental management, (ii) health and safety, (iii) environmental laws and regulations	All relevant EPC, OE and Uch-II staff aware about the Project EMP & H&S Mgt plan and all other Environmental applicable & relevant Laws and regulations. Efforts are being made my Uch-II for setting up an Environmental Awareness session with EPC contractor and subcontractor's Managers, supervisor.	
(iii)	Training programs carried out	EPC contractor carrying out site HSE induction as per their procedure for its entire staff as well as subcontractors. Specific in house trainings regarding Environmental Awareness, General safety, fire prevention, site emergency mustering and evacuation drills, work at height, defensive driving, hot work and other relevant topics carried out by EPC Health & Safety management team. Altogether a total of 822 workers trained on different EHS topics during the reporting quarter. Appendix 1 (EPC In house Training Statistics – Q-1 2012)	
(iv)	Needs assessment of environmental management capacity (as relevant)	Uch-II New HSE Officer Position created & recruitment completed. The EHS officer to join in early April 2012.	
(v)	Compliance audits carried out	Project EMP audit carried out for EPC contractor HSE management by Uch-II HSE Manager in December 2011. Corrective actions progress being monitored. Appendix 2 (Corrective Action Plan Matrix) EMP Audit - updated April 2012)	
G	Stakeholder Consultation/CSR Activities		
(i)	Details of consultations, if any, with local communities, nongovernmental organizations, civil society groups, and other stakeholders, including affected people	None	
(ii)	Describe efforts to promote community relations and local development for inhabitants of the project area.	None	
(iii)	Project procedures for (a) hiring and (b) acquisition of goods and services	EPC labour hiring procedure in place.	
(iv)	Provide List of grievances and status of grievance resolution	None in Q-1 2012. Grievance register has been placed at the main gate. Grievance redress mechanism and LPU & GRTG available and in place.	
H	Issues, Status of Implementation of Mitigating Measures in the Environmental and Social Management Plan and Compliance with Environmental Qualities and Standards (national and international, as relevant) and Environmental and Social Requirements		
	Parameter	Issue	Status
1	Air	None	Dust monitoring and suppression with water spray ongoing on the dumpers / trucks movement tracks / roads both on & offsite.
2	Water (surface and ground water)	None	Overall compliance with EMP (as applicable against specific parameters) in place.
3	Waste generation and management	None	Construction site sewage water disposal arranged to DMJ municipal area.
4	Noise and vibration	None	EPC contractor monitoring boundary &

			Occupational nose levels on monthly basis.
5	Occupational health and safety	None	EPC contractor to arrange the occupational health surveillance for its workforce (including subcontractors) as per their procedure.
6	Community safety and security	None	As Per EPC contractor's SOPs
7	CO ₂ emissions by the Project		1,777,156 Kg CO ₂ for site Diesel Gens sets and vehicular CO ₂ emissions for construction site reported during Q-1 year 2012 by EPC contractor. Calculations based upon total Diesel fuel used for the same purpose by EPC and its subcontractors.
8	Environmental and Social Management Plan, including IFC E&S Action Plan (September 29, 2010)		Project H&S and EMP implementation and monitoring in place by EPC contractor. ESAP Update: OGDCL EIA is still in -process for obtaining NOC from BEPA.

I Summary Assessment of Client Performance and Recommendations

The construction activities comprising excavation of Raw water pond and waste water ponds remained in progress during the reporting quarter. Excavation work of cooling tower completed and concrete pouring completed while raw water pond excavation work is near to end. EPC additional temporary offices structures work in progress. New First aid pre-fab building foundation prepared. Work on buildings like Workshop and store building structures and administration building, Gas Turbines and HRSG's foundations, service and fire water / HSD storage tanks in progress.

December 2011 HSE audit corrective being monitored by Uch-II HSE management, follow up audit planned in April 2012. EPC contractor supplementing its HSE manpower as per its organogram. 6monthly EPC HSE audit planned in June 2011 by Uch-II.

Regular site HSE monitoring carried out by Uch-II HSE Management. Areas of weaknesses, mainly housekeeping, hard barrications, unsafe conditions, fire potentials, unsafe acts by EPC and subcontractors staff, spill hazard, projections, slips falls and trips Hazards and issues related to site heavy load movement highlighted and corrective actions suggested for compliance.

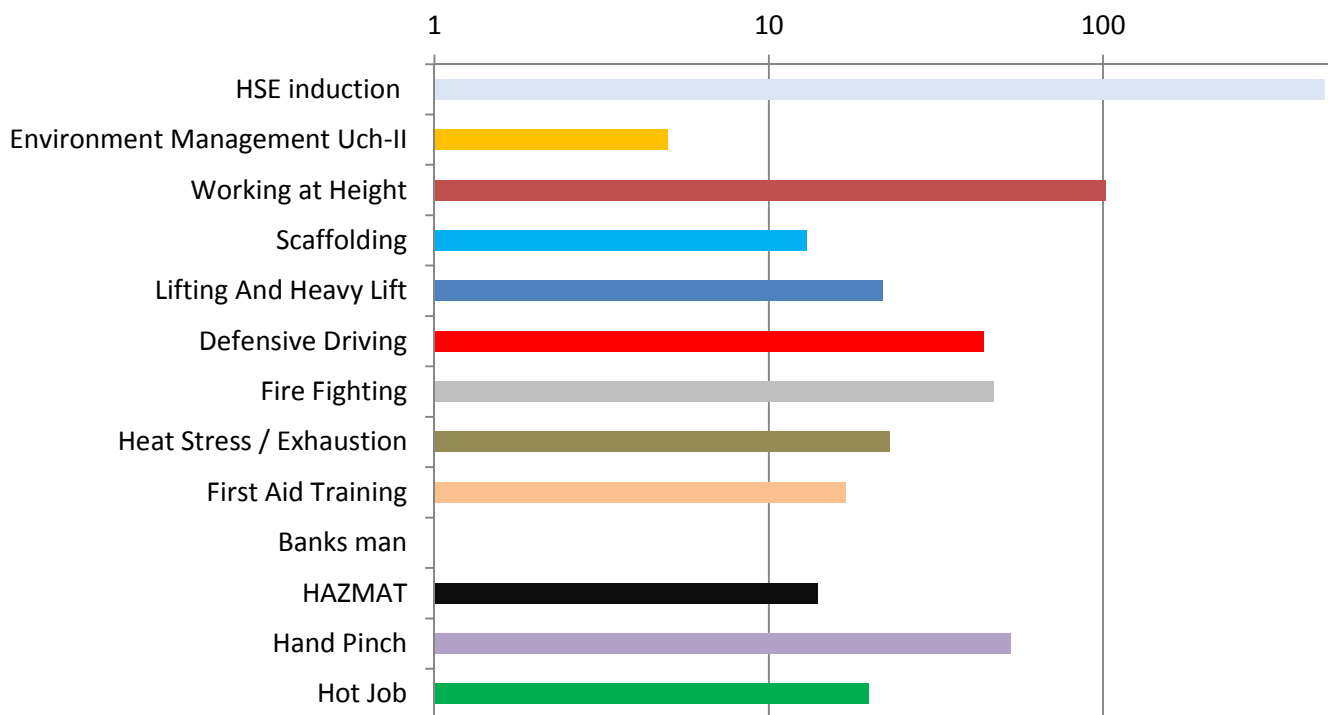
No other significant Environmental & Social issues to report.

EPC (Descon) In house HSE Training Record

Q-1 2012

Training Topics	Jan-12	Feb-12	Mar-12	Total
HSE induction	68	181	212	461
Environment Management Uch-II		5		5
Working at Height	31	18	53	102
Scaffolding			13	13
Lifting And Heavy Lift		2	20	22
Defensive Driving		32	12	44
Fire Fighting	20	6	21	47
Heat Stress / Exhaustion		15	8	23
First Aid Training		7	10	17
Banks man	1			1
HAZMAT	14			14
Hand Pinch	41	12		53
Hot Job	8	4	8	20

Q-1 2012	822
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Appendix 02

Corrective Action Plan Matrix (EMP Audit December 2011)

No	EMP Action Item	Status As of End Dec 2012	Planned Finish Date	Status 30 April 2012	Remarks	Next Finish Date
1	Environment Management system					
1.1	<u>Environmental Policy Uch II Project construction site</u> Environmental policy Uch-II to be made site specific.	COMPL	31-12-2011	COMPL	An Urdu version is also recommended to be developed.	Compliant
2	Environmental KPIs					
2.1	<u>Record of HSE Induction Key personnel & Supervisors to date arrived at site</u> HSE induction to be aligned with EMP.	Action Awaited	31-12-2011	COMPL	HSE induction provided to all personnel involved in EPC work	Compliant
2.2	<u>Environmental Incidents record since mobilization.</u> Environmental Incident records to be maintained on daily basis on EHS monitoring sheet.	Action Awaited	31-12-2011	COMPL	Environmental incidents are being recorded on daily basis	Compliant
3	Emergency Planning and Preparedness					
3.1	<u>Oil & Chemical Spill control drills plan</u> A detailed procedure to be developed in addition to existing spill response flow chart.	Action Awaited	31-12-2011	COMPL	Spill response flow chart in place at site is the part of DIMS.	Compliant
3.2	<u>All minor / major Environmental incidents to be investigated, CARs addressed on daily basis</u>	COMPL	31-12-2011	COMPL	Incident investigations performed	Compliant
4	Grievance Handling Procedure					
4.1	<u>GRP Implementation</u> EPC to nominate LPU & GRTG members so that GRP can be finalized and implemented	Action Awaited	31-12-2011	COMPL	LPU & GRTG formed and GRP implemented	Compliant
4.2	<u>Social Complaint Register (SCR)</u> Social Complaint Register (SCR) to be made available at gate	COMPL	31-12-2011	COMPL	SCR available	Compliant

5	Dust Control on Construction site					
5.1	<u>Dust control routines records</u>					
	Dust control activates records to be maintained	COMPL	31-12-2011	COMPL	The dust control activity was being performed. EPC asked to maintain its record as well.	Compliant
6	Equipment and machinery/ vehicle exhaust emissions					
6.1	<u>Monitoring of Equipment and machinery/ vehicle exhaust analysis of Oxides of nitrogen and sulphur, CO, PM10, smoke at the time of equipment/vehicle is inducted in pool & annually.</u>	Action Awaited	15-01-2011	Action Awaited	EPC to produce the vehicular Emissions monitoring reports. 3rd Party contracting in progress.	30-04-2012
7	Waste water analysis					
7.1	<u>Analyze the waste water on monthly basis</u>	Action Awaited	15-01-2012	COMPL	Analysis performed and Sample also sent to 3 rd party lab as well.	Compliant
8	Fresh Water consumption					
8.1	<u>Water consumption recorded on monthly basis</u>					
	Record water consumption data through a meter rather than an estimate.	COMP	31-12-2011	COMPL	Flow meter installed since January 2012	Compliant
9	Solid Waste management					
9.1	<u>Solid waste management, inspection, segregation and disposal.</u>	Action Awaited	15-01-2012	COMPL	Waste generated at site is being collected, segregated and quantified	Compliant
10	Construction Noise					
10.1	<u>Ambient noise levels at plant boundary on monthly basis</u>					
	Monitor boundary wall ambient noise level on monthly basis.	COMP	31-12-2011	COMPL	Dec-11 data available through UPL boundary noise monitoring, EPC monitoring implemented from Jan-12 onwards.	Compliant
10.2	<u>Occupational noise levels at machines / noise generating sources (1m)</u>					
	EPC contractor to monitor occupational noise as per EMP.	COMP	31-12-2011	COMPL	Occupational Noise monitoring carried out from Jan-12 onwards.	Compliant
11	Machinery					
11.1	<u>Approval and suitability of machinery inspection certificates upon arrival for use.</u>					
	Vehicle Inspection certificates to be provided by EPC	Information awaited	30-01-2012	COMPL	Vehicle certificates available	Compliant

12	Fuel and chemical handling					
12.1	<u>Secondary containment and Notices of material in place</u>					
	Provide secondary containment around oil and chemical storage	COMPL	31-12-2011	COMPL	Signage needs improvement.	Compliant
12.2	<u>Daily inspection check sheet for fuel storage</u>					
	EPC contractor to prepare monitoring sheets for recording Fuel and chemical hazards on daily basis.	COMPL	31-12-2011	COMPL	Daily check on Daily HSE report available	Compliant
13	Housekeeping					
13.1	<i>Are Recyclable material Bins available</i>	COMPL	15-01-2012	COMPL	Bins placed at site	Compliant
13.2	<i>Waste scrap material waste skips available</i>	COMPL	15-01-2016	COMPL	landfill area designated	Compliant
13.3	<i>Daily Housekeeping survey of all project sites, areas maintained</i>	COMPL	15-01-2020	COMPL	Daily monitoring record maintained	Compliant

Note: Revised and updated status (as of April 30, 2012) of corrective action plan from Dec 2011 EHS Audit