



# Environmental and Social Quarterly Monitoring Report

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Project Number: 43903 (Loan 2722)  
June 2012

## PAKISTAN: Uch-II Power Project Environmental and Social Development Quarterly Monitoring Report (Q2 2012)

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Asian Development Bank

## ENVIRONMENTAL AND SOCIAL MONITORING REPORT

Q2 - 2012

A	Project/Business Name and Summary Information	
	<b>Development of 404 MW Gas Fired Combined Cycle Power Plant by Uch-II Power (Private) Limited</b>	
(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 excavation and foundation for switch yard, laying of raw water pipeline and activities in water treatment system area) 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 &amp; 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>	N/A
	<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)	Media or community reactions (if any)	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) <b>EPC</b> HSE Manager / HSE Engineers, supervisors ( a team of 09 HSE staff members are available on construction site looking after HSE functions (ii) <b>Uch-II</b> HSE Manager and HSE Officer supported by UPL O&M Team. (iii) <b>Owners Engineer</b> 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.	
(iii)	Training programs carried out	EPC contractor carrying out regular site HSE induction as per their procedure for its entire staff as well as subcontractors. Specific in house trainings regarding Environmental Awareness, fire fighting, confined spaces, heavy lifting, 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 1122 workers trained on different EHS topics during the reporting quarter.  <a href="#">Appendix 1 (EPC In house Training Statistics – Q2- 2012)</a>	
(iv)	Needs assessment of environmental management capacity (as relevant)	None	
(v)	Compliance audits carried out	Project biannual EMP audit carried out for EPC contractor HSE management by Uch-II HSE Manager and HSE Officer in June 2012. Corrective actions progress being monitored.  <a href="#">Appendix 2 (Corrective Action Plan Matrix) EMP Biannual Audit - updated August 2012)</a>	
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-2 2012. 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 sprinkling 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	Waste generated at site is being collected, searegated and quantified. Construction site

			sewage water disposal arranged to DMJ municipal area.
4	Noise and vibration	None	EPC contractor monitoring boundary & Occupational noise levels on monthly basis.
5	Occupational health and safety	None	Monitoring of Health & Safety Key performance Indicators done by EPC. Site medical centre / officer maintaining workers health records for reported cases.
6	Community safety and security	None	As Per EPC contractor's SOPs
7	CO <sub>2</sub> emissions by the Project		921485 Kg CO <sub>2</sub> for site Diesel Gens sets and vehicular CO <sub>2</sub> emissions for construction site reported during Q-2 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 plan 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 fabrication of raw water pipeline from Pat Feeder canal, fabrication of service and fire water tanks, clarifier remained in progress during the reporting quarter. Cooling tower civil work in progress, whereas the foundation for Gas Turbines, HRSG's and Steam Turbine has been constructed. Shifting of first aid centre to its new building completed. Work on buildings like Workshop and store building structures and administration building, service and fire water / HSD storage tanks in progress.

A full scale biannual audit of construction activities and site carried out by Uch-II HSE management in June-2012 to gauge the HSE performance of the EPC construction team. Accordingly, an audit report is prepared and shared with EPC describing the results of audit and specifying non conformances and recommended corrective actions with dates for completion.

Regular site HSE monitoring carried out by Uch-II HSE Management. Areas of weaknesses, mainly housekeeping, falling hazards, electrical hazards, unsafe conditions, fire potentials, PPEs non compliances, unsafe acts by EPC and subcontractors staff, oil / chemical spill hazards, biological hazards, projections, slips and trips Hazards, road transport hazards and issues related to site heavy load movement highlighted and corrective actions suggested for compliance.

No other significant Environmental & Social issues to report.

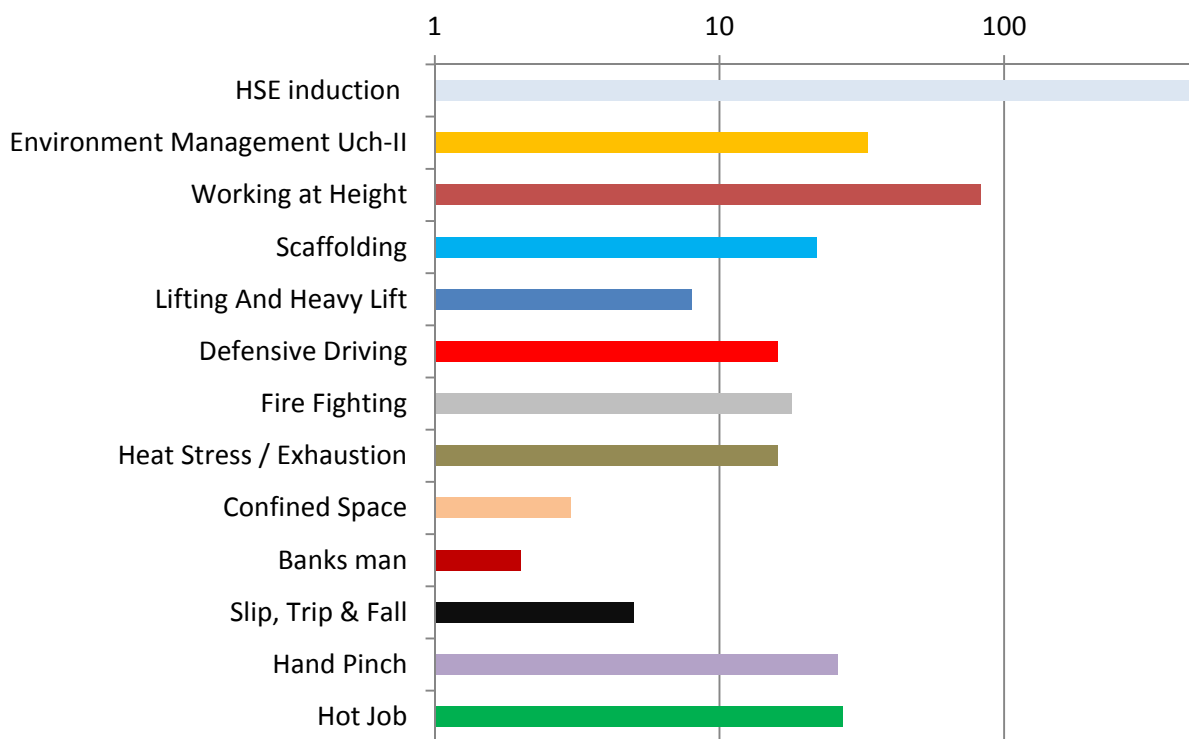
## Appendix 01

### EPC (Descon) In house HSE Training Record

Q-2 2012

Training Topics	Apr-12	May-12	Jun-12	Total
HSE induction	334	255	274	863
Environment Management Uch-II	33			33
Working at Height	38	11	34	83
Scaffolding	10		12	22
Lifting And Heavy Lift		5	3	8
Defensive Driving			16	16
Fire Fighting	10		8	18
Heat Stress / Exhaustion	4	12		16
Confined Space	3			3
Banks man	1	1		2
Slip, Trip & Fall		5		5
Hand Pinch	24	2		26
Hot Job	3	18	6	27

Q-2 2012	1122
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## Appendix 02

### Corrective Action Plan Matrix (EMP Biannual Audit June 2012)

No	EMP Action Item	Responsibility	Planned Finish Date	Status 08 August 2012	Remarks	Actual Finish Date
<b>1</b>	<b>Environment Management system</b>					
1.1	<u>Environmental Policy Uch II Project construction site</u>					
	Environmental policy Uch-II to be communicated to all personnel approaching the site	EPC	15-08-2012	COMPL	Environmental policy is a part of HSE induction	Compliant
1.2	<u>Adequacy of HSE Induction in line with EMP</u>					
	All aspects of EMP must be part of HSE induction	EPC	15-08-2012	COMPL	All important features of EMP are included in induction along with visual effects	Compliant
<b>2</b>	<b>Environmental KPIs</b>					
2.1	<u>Environmental Incidents record since mobilization.</u>					
	Quality of incident investigations to be improved	EPC	20-09-2012	Action Awaited	Recommended to arrange incident investigation techniques training for EPC HSE staff	
<b>3</b>	<b>Emergency Planning and Preparedness</b>					
3.1	<u>Oil &amp; Chemical Spill control plan</u>					
	Oil & chemical spill recovery drills to be carried out on regular basis	EPC	30-08-2012	COMPL	Spill response exercises are being performed on monthly basis	Compliant
<b>4</b>	<b>Solid Waste management</b>					
4.1	<u>Solid waste management, inspection, segregation and disposal.</u>					
	Additional land fill area required for disposal of kitchen / food waste	EPC	05-09-2012	COMPL	Land fill area for food waste disposal is available	Compliant
<b>5</b>	<b>Machinery</b>					
5.1	<u>Machinery inspection certificates upon arrival for use.</u>					
	Vehicle Inspection certificates to be provided by EPC.	EPC	30-08-2012	COMPL	Third party certificates available. In-house inspection of cranes at site is in practice on monthly basis	Compliant

<b>6</b>	<b>Fuel and chemical handling</b>					
6.1	<u>MSDS of chemicals and notices at storage facility</u>					
	Simplified MSDS in Urdu language to be prepared and posted at respective locations	EPC	25-08-2012	COMPL	MSDS of all stored chemicals / oils are made available at storage area	Compliant
6.2	<u>Hazmat awareness TBTs</u>					
	Hazmat awareness TBTs to be provided to store staff	EPC	25-08-2012	COMPL	TBTs Provided to store staff	Compliant
<b>7</b>	<b>Housekeeping</b>					
7.1	<u>Waste collection, storage and disposal at site</u>					
	Hazardous waste generated from workshop needs to be recorded in monthly waste generation report	EPC	30-08-2012	COMPL	Hazardous Waste from workshop is being recorded	Compliant