



UNITED NATIONS DEVELOPMENT GROUP IRAQ TRUST FUND

PROJECT DOCUMENT COVER SHEET

Participating UN Organisation: <i>(acronym is sufficient)</i> United Nation Development Programme	Cluster: <i>(number and area)</i> Infrastructure (Electricity)
Programme/Project Manager Name: Jan Roodt Address: UNDP- Iraq Telephone: 079-5026607 E-mail: jan.j.roodt@undp.org	Cluster Task Manager Name: Steve Vilonel Address: UNDP-Iraq Telephone: 079 5159532 E-mail: steve.vilonel@undp.org
Programme/Project Title: Emergency Supply of Equipment to Electricity Sector in Iraq and Support to Essential Humanitarian Services Programme/Project Number: C4 UNDP P1	Programme/Project Location: All Iraq Regions
Programme/Project Description: To respond to the immediate humanitarian needs of the war-affected Iraqi people through ensuring reliable and safe electricity supply to key load centers throughout the country and essential humanitarian services such as hospitals and water pumping stations in the central and upper south regions. In addition, this project is focused on re-establishing part of the capacity building capabilities of the Ministry of Electricity- MoE (former Commission of Electricity) through refurbishing and reequipping three of their training centers and organizing refreshment training courses for selected technical trainees.	Programme/Project Costs: US\$11,999,140 UNDG ITF: Government Input: Other: Total:
Govt of Iraq Line Ministry Responsible:	Programme/Project Duration: 12 months
Review & Approval Dates: Cluster Review Date: Cluster Manager Group Review Date: Steering Committee Approval Date: ISRB Approval Date:	

UN Agency Name:
Acronym is sufficient

 Signature

Date
5.8.2004

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Development Goal and Key Immediate Objectives: *(no more than one paragraph)*

- Development objective:** safe To respond to the immediate humanitarian needs of war-affected Iraqi people through ensuring reliable and electricity supply to all consumer categories, in particular key humanitarian essential services.
- Immediate objective 1:** grid. Key parts of the Iraqi electricity national grid continue to operate, thus ensuring the overall integrity of the grid.
- Immediate objective 2:** the Essential humanitarian services in the central and upper south regions of Iraq continue to provide services to the population.
- Immediate objective 3:** The capacity of the MoE in providing basic technical training to its staff restored.

Outputs and Key Activities: *(Please be concise and ensure the narrative above does not exceed this page)*

- Output 1:** Urgently required equipment and spare parts installed in key parts of the national electricity grid.
- Activity 1.1 Assessing and prioritizing the needs of equipment and spare parts.
- Activity 1.2 Procuring and delivering the identified priority equipment and parts.
- Activity 1.3 Undertaking the necessary repair works and replacements.
- Output 2:** The electrical facilities of essential humanitarian services operational and supported by sufficient backup generation capacity.
- Activity 2.1 Assessing and prioritizing the needs of generators, ancillary items and repair works.
- Activity 2.2 Procuring and delivering the generators and ancillary items.
- Activity 2.3 Undertaking the necessary repair works.
- Activity 2.4 Installing and commission the diesel generators
- Output 3:** Three MoE training centers fully refurbished and reequipped and the technical capacities of selected trainers enhanced.
- Activity 3.1 Assessing the needs to fully refurbish and reequip the three training centers.
- Activity 3.2 Assessing the requirements for enhancing the technical capacities of selected trainers.
- Activity 3.3 Refurbishing the training centers.
- Activity 3.4 Procuring and delivering the equipment required for the full operation of the three training centers.
- Activity 3.5 Organizing and undertaking refreshing training courses for the selected trainers.



Participating UN Organization/Cluster Programme/Project Proposal COVER SHEET

Participating UN Organization: UNDP	Cluster: Infrastructure
Programme/Project Manager Name: Jan Roodt Address: UNDP- Iraq Telephone: 079-5026607 E-mail: jan.j.roodt@undp.org	Cluster Task Manager Name: Steve Vilonel Address: UNDP-Iraq Telephone: 079 5159532 E-mail: steve.vilonel@undp.org
Programme/Project Title: Emergency Supply of Equipment to Electricity Sector in Iraq and Support to Essential Humanitarian Services	Programme/Project Location: All Iraq Regions
Programme/Project Description: To respond to the immediate humanitarian needs of the war-affected Iraqi people through ensuring reliable and safe electricity supply to key load centers throughout the country and essential humanitarian services such as hospitals and water pumping stations in the central and upper south regions. In addition, this project is focused on re-establishing part of the capacity building capabilities of the Ministry of Electricity- MoE (former Commission of Electricity) through refurbishing and reequipping three of their training centers and organizing refreshment training courses for selected technical trainees.	Total Programme/Project Cost: US\$11,999,810 Programme/Project Duration: 12 months
Development Goal and Key Immediate Objectives:	
Development objective: To respond to the immediate humanitarian needs of war-affected Iraqi people through ensuring reliable and safe electricity supply to all consumer categories, in particular key humanitarian essential services.	
Immediate objective 1: Key parts of the Iraqi electricity national grid continue to operate, thus ensuring the overall integrity of the grid.	
Immediate objective 2: Essential humanitarian services in the central and upper south regions of Iraq continue to provide services to the population.	
Immediate objective 3: The capacity of the MoE in providing basic technical training to its staff restored.	
Outputs and Key Activities:	
Output 1:	Urgently required equipment and spare parts installed in key parts of the national electricity grid.
Activity 1.1	Assessing and prioritizing the needs of equipment and spare parts.
Activity 1.2	Procuring and delivering the identified priority equipment and parts.
Activity 1.3	Undertaking the necessary repair works and replacements.
Output 2:	The electrical facilities of essential humanitarian services operational and supported by sufficient backup generation capacity.
Activity 2.1.	Assessing and prioritizing the needs of generators, ancillary items and repair works.
Activity 2.2	Procuring and delivering the generators and ancillary items.
Activity 2.3	Undertaking the necessary repair works.
Activity 2.4	Installing and commission the diesel generators
Output 3:	Three MoE training centers fully refurbished and reequipped and the technical capacities of selected trainers enhanced.
Activity 3.1	Assessing the needs to fully refurbish and reequip the three training centers.
Activity 3.2	Assessing the requirements for enhancing the technical capacities of selected trainers.
Activity 3.3	Refurbishing the training centers.
Activity 3.4	Procuring and delivering the equipment required for the full operation of the three training centers.
Activity 3.5	Organizing and undertaking refreshing training courses for the selected trainers.

2. Logical framework

Objectives	Measurable indicators	Means of verification	Important assumptions
<p>Development Objective To respond to the immediate humanitarian needs of war-affected Iraqi people through ensuring reliable and safe electricity supply to all consumer categories, in particular key humanitarian essential services</p>	<ul style="list-style-type: none"> Availability of a reliable and secure electricity supply to all consumer categories especially for essential services and other community services. 	<ul style="list-style-type: none"> Improvement of livelihood, wellbeing and economic development of the people in Iraq Assessments and feedback from counterparts. 	<ul style="list-style-type: none"> Security situation doesn't further deteriorate. The local structures on the ground take up their responsibilities,
<p>Immediate Objectives:</p> <ul style="list-style-type: none"> Key parts of the Iraqi electricity national grid continue to operate, thus ensuring the overall integrity of the grid Essential humanitarian services in the central and upper south regions of Iraq continue to provide services to the population The capacity of the MoE in providing basic technical training to its staff restored. 	<ul style="list-style-type: none"> The electricity network operational and power delivered to key load centers. Essential humanitarian facilities in the central & upper south regions provide services to their clients. MoE able to resume its capacity building programmes. About 30 MoE technical staff trained. 	<ul style="list-style-type: none"> Final assessment, evaluation and technical acceptance reports of UNDP national staff on ground Feedback from counterparts. 	<ul style="list-style-type: none"> Security situation doesn't further deteriorate
<p>OUTPUTS:</p> <ul style="list-style-type: none"> Urgently required equipment and spare parts installed in key parts of the national electricity grid. The electrical facilities of essential humanitarian services operational and supported by sufficient backup generation capacity. Three MoE training centers fully refurbished and reequipped and the technical capacities of selected trainers enhanced. 	<ul style="list-style-type: none"> Urgently required equipment procured to be installed in about 15 key electricity facilities. 50 back up generators procured and installed in selected essential humanitarian facilities. MoE able to conduct basic training programmes for its technical staff. 	<ul style="list-style-type: none"> Periodic progress reports Feedback from counterparts 	<ul style="list-style-type: none"> Security situation doesn't further deteriorate. Internationally procured items are delivered safely to implementation sites.

Objectives	Measurable indicators	Means of verification	Important assumptions
<p>ACTIVITIES:</p> <ul style="list-style-type: none"> • Assessing and prioritizing the needs of equipment and spare parts. • Procuring and delivering the identified priority equipment and parts. • Undertaking the necessary repair works and replacements. • Assessing and prioritizing the needs of generators, ancillary items and repair works in about 50 locations. • Procuring and delivering the generators and ancillary items. • Undertaking the necessary repair works. • Installing and commission the diesel generators • Assessing the needs to fully refurbish and reequip the three training centers. • Assessing the requirements for enhancing the technical capacities of selected trainers. • Refurbishing the training centers. Assessing the needs to fully refurbish and reequip the three training centers. • Procuring and delivering the equipment required for the full operation of the three training centers. • Organizing and undertaking refreshing training courses for the selected trainers. 	<ul style="list-style-type: none"> • As per attached table 	<ul style="list-style-type: none"> • A financial report shall be submitted at the end of the project. 	<ul style="list-style-type: none"> • Equipment and material needed are not available, • Transportation of equipment to the areas of most needs becomes difficult, • Security situation doesn't further deteriorate.

3. Programme/project Justification

Background

UNDP previous involvement in the Iraqi electricity sector (OFFP):

In the center and south of Iraq, the UNDP team in Baghdad, comprising of 13 international specialist observers and national technical and support staff, inspected and examined the essential infrastructure as part of its monitoring and verification role. This developed a

significant database of information about these assets. In addition, the team has acquired experience and knowledge regarding the physical assets as well as the operation of the various governmental entities responsible for the development, operation and maintenance of these assets.

In the three northern Iraqi governorates, UNDP administered and implemented the Electricity Network Rehabilitation Programme (ENRP). A comprehensive project team was assembled to investigate, plan and implement works to rehabilitate the electricity network. UNDP developed extensive experience in the management and execution of complex engineering projects through its work on the ENRP where its team of 300 national and 70 international employees worked with a local workforce of around 3000.

Post war involvement of UNDP in the electricity sector

UNDP played a key role in the electricity sector Needs Assessment and is currently undertaking the following activities in consultation and collaboration with national authorities including the MoE:

- Conduct programs of emergency repairs, replacement and additions to Iraq's infrastructure including systems for the supply of power to satisfy basic humanitarian and developmental needs in Iraq. This will follow the deployment of rapid assessment teams to determine the specific needs.
- Assist in the development of a Master Plan for the electrical sector to guide the rehabilitation, strengthening and growth of the network to satisfy electricity demand at present and in the future.
- Enable the Central Operation Control facility of the Ministry of Electricity to manage the power system stability and control the power flow by rehabilitating the national Dispatch Center and installing a new Supervisory Control and Data Acquisition (SCADA) and Remote Terminal Units (RTUs).
- Conduct training and capacity building for institutional development across the electricity sector of Iraq. This includes staff responsible for operation, maintenance or construction of electricity facilities in the field as well as staff from the Ministry and entities responsible for sectoral planning, revenue collection, and relevant commercial, customer relations, and regulatory issues.
- Contribute in increasing power generation capacity by rehabilitating Hartha, Mussaiab, Taji and Mosul power stations.

Programme / Project approach

Problems to be addressed:

From discussions with the Iraq Ministry of Electricity and observations made by the UN, the electricity network in the 15 governorates of the center and south was in a serious state of disrepair even prior to the last conflict. The successive wars, sanctions imposed on the country, lack of spare parts and adequate operation & maintenance programmes and vandalism contributed to the further deterioration of key components of the electricity network. All this resulted in the power generation capacity dropping to less than 50% of the demand and other key facilities rendered to useless rubble. This limited available power cannot be delivered to certain key load centers, as the networks servicing these centers are not fully operational, if at all. Furthermore, most of the emergency interventions on the part of the different players are to address generation shortfall without giving required attention, at present, to other facilities required to **deliver and distribute** this additional power capacity to the consumers.

One of the priorities of this project would be to procure, deliver and install some urgently required equipment and materials identified by the MoE and the Needs Assessment. These will be used to prevent further disintegration of key network facilities and ensure their availability to deliver power to consumers until long-term rehabilitation takes place.

Furthermore, post war looting was not limited to government buildings, but also affected hospitals and other humanitarian services throughout the country; particular reference is made to the central and upper southern regions of Iraq, where a population of more 7 million resides. Through this project, UNDP will procure, deliver and install back generation capacity in selected key humanitarian services to ensure the continuation of the services provided by these facilities to the population. The final selection of sites will be in coordination with UN Clusters 2 and 3 and also with the respective local authorities at the governorates level.

The third area that this project will partially address is the capacity of the MoE to provide basic training to its Repairs and Maintenance crews. Iraq was one of the leading countries in the region in providing training on norms of operation and safety issues in the electricity sector, not only to its technical staff but also to technical staff from neighboring countries. During the 10 years sanctions this capacity weakened and eventually totally ceased to exist as a result of post war looting of the MoE training centers. This project would aim at refurbishing and reequipping three of these training centers and also building the capacities of selected MoE potential trainers, which will result in the restoration of the capability of the Ministry in providing basic technical training to its staff.

Relationship between the project outputs and the strategic UN approach for providing assistance to Iraq

The project outputs could be categorized under the following outcomes as stipulated in the UN Strategic Planning Document (SPD):

- SPD Outcome: The Ministry of Electricity (MoE) able to transmit and distribute power to key load centers, main hospitals and large water pumping stations.
- SPD Outcome: Key essential humanitarian facilities able to provide services to the population.
- SPD Outcome: Human resources capacities upgraded and capable of managing the rehabilitation electrical sector to meet the needs of the Iraqi population and their development priorities.

Beneficiaries

The direct beneficiaries of this project are the MOE, its staff and selected essential humanitarian services in the central and upper south regions of the country.

The secondary beneficiaries are the population of Iraq and all consumer categories that are supplied by electricity from the Iraqi national grid.

National contractors will be employed and trained to undertake the works.

Involvement of beneficiaries in the development and delivery of the project

- Staff of the MoE will be trained through intensive participation in the design, preparation of the technical specifications of the equipment to be procured and the subsequent technical evaluation of the bids.

- Selected staff (trainers) from the MoE will attend refreshing training courses outside of Iraq for upgrading their technical capabilities and furthermore for undertaking training of other MoE staff inside the country once the training facilities that will be refurbished and reequipped under this project are operational.
- Technical staff of the relative Health Departments/ Directorates will be trained and participate in undertaking part of the repair works of the electrical facilities of key selected hospitals and medical centers.

Coordination and liaison aspects

This project has been carefully planned in coordination with other efforts for planning the rebuilding of the electrical network and providing essential services with continues and reliable electrical power. The investments under this project will (a) ensure that facilities not planned for rehabilitation on the short or medium terms will continue to operate, (b) support the long-term reliable and continuous operation of the facilities being serviced, and (c) to ensure that the benefits gained from the capacity building component under this project will be transferred to other MoE staff inside the country.

The outputs of this project will be in line with the ongoing efforts in addressing the findings of the Needs Assessment jointly conducted by the UN and the World Bank.

Management arrangements:

The project will be implemented by UNDP under the Direct Execution Modality (DEX), whereby UNDP will be accountable for the attainment of the project objectives and is responsible for its overall management.

UNDP international engineers will work closely with national engineers and specialists to agree on the scope of various systems, requirements, priorities, eventual contracts, and to ensure proper transfer of knowledge and capacity building. The structures, procedures and financial and accounting systems of UNDP will be utilized.

Procurement, both international and local, will be subject to UNDP rules ensuring cost-effectiveness, transparency and competitiveness. UNDP would proceed with a very flexible plan of action and continuous consultations with all its partners and stakeholder

5. Analysis of risks and assumptions

The responsiveness of the project to the existing needs will depend on the security situation in the country and the timely availability of resources. UNDP would aim to proceed with a flexible plan of action supplemented by continuous consultations with all its partners including local communities. Project implementation is very dependant on the situation on the ground and will require:

- a security situation that is considered suitable for the UNDP staff to implement the necessary rehabilitation activities; and

- Efficient co-ordination and cooperation between all partners and stakeholders to ensure integrated initiatives and collaborative efforts.
- Options considered and the steps taken in programme/project design and implementation to address, and minimize or mitigate the potential risks;
- Any undertakings or agreements made with partners which impact on programme/project implementation; how observance of undertakings will be monitored; the implications of non-compliance.