ard ID: 00079907 oject ID: 00089774	Work Plan (AWP) for 2014-2018:					
le:	GEF: Catalysing the Use of Solar Photovoltaic Energy	A. C.				
UNDAF Outcome:	Outcome 3. Environmental management and compliance with ratified international environmental treaties and	UN				
	Promoting inclusive growth, gender equality and MDG	DP				
CPAP Outcome:	GoI has the institutional framework to develop and implement MDG-based pro-poor, equitable and inclusive socio-	Iraq				

Expected Outputs  I baseline, associated indicators and ual targets	Outputs/Activities  List acticvity results and associated actions		20	)15		Fund Source	Budget	Responsible	
		Q1	Q2	Q3	Q4		Description	Party	Amount (USD)
tcome 1 estment in solar photovoltaic power hnologies for distributed electricity heration for office, residential, small heration small town application.	<ol> <li>1. 1 Activity Result: Assessment of PV technology, including cost-benefit analysis of a range of configurations, for distributed solar rooftop units suitable for the Bytti project in Najaf, with total capacity of 5 MW.</li> </ol>								
	Action: Recruitment of international consultant to conduct evaluation of (1)crystalline (mono and poly) and	×	x	x	x	62000	71200	UNDP	45,000
	Action: Recruitment of national consultant to support in evaluation of crystalline (mono and poly), thin-film	х	x	x	x	62000	71300	UNDP	20,000
	-Action Contractual Serivices	х	×	×	×	62000	71400	UNDP	45,000
	- Action: Grants: equipment,etc.	х	x			62000	72400	UNDP	100,000
	- Action: Organizing Inception Workshop and Capacity	×		x		62000	75700	UNDP	3,000
	-Action: Travel	ж		x		62000	71600	UNDP	16,000
	1.2. Activity Result: Design, construction and operation of distributed small-scale rooftop solar PV power systems (total 5 MW) for town services in Bytti.								
	-action: recruitment of international consultant to design (1) sourcing of local mounting structures, security	(/*)		x	x	62000	71200	UNDP	30,000
	- Action: Organizing Training Workshop				x	62000	75700	UNDP	1,500
	-Action: Travel				х	62000	71600	UNDP	15,000
seline 1: none get: Installation and operation of 5 V of distributed, grid-connected PV at ti.	1.3. Activity Result: Monitoring data for operational aspects, including power production, distribution and domestic use of solar power supply, to allow performance evaluation.								
tallation and operation of 16 utility-	-Action Recruitment of Int'l consultant to support to purchase (1) equipment for monitoring of PV output, (2)					62000	71200	UNDP	
le PV plants.	- Action: Organizing Traiing and Workshop					62000	75700	UNDP	
	-Action: Travel					62000	71600	UNDP	
licators: Megawatts of solar PV talled.	1.4. Activity Result: Selection of sites around Iraq for on- and off-grid utility scale PV plants as a model for IPPs and utility solar power.								
	-Action Recruitment of Int'l consultant to assess (1) solar					62000	71200	UNDP	* 100 100
	resource for the proposed sites usina around-based and - Action: Organizing Traiing and Workshop					62000	75700	UNDP	
	- Action: Travel	+	-			62000	71600	UNDP	
	1.5 Activity Result: Finalization of tender documents and component specifications.								
	-Action Recruitment of Int'l consultant to assess (1)	+				62000	71200	UNDP	
	commercial technologies for utility-scale PV power - Action: Organizing Traiing and Workshop					62000	75700	UNDP	
	-Action: Travel	-				62000	71600	UNDP	



Expected Outputs	Outputs/Activities	. 2015				Fund	Budget	Responsible	
baseline, associated indicators and ual targets	List acticvity results and associated actions	Q1	Q2	Q3	Q4	Source	Description	Party	Amount (USD)
	1.6 Activity Result: Monitoring data for operational aspects, power production, distribution and grid behaviour.								
	-Action Recruitment of Int'l consultant to support (1) installation of monitoring equipment at plant location to					62000	71200	UNDP	
	- Action: Organizing Traiing and Workshop					62000	75700	UNDP	
	- Action: Travel					62000	71600	UNDP	
	MANAGER STATE OF THE STATE OF T		H			THE IS	Totalief	Output 1	275,50
ective/Outcome 2 Encouragement of	2.1. Activity Result: Approved and enforced revised policies								
estments in solar power technology aq and consumer uptake of solar liances through policy reform and ncial incentives.	and regulations, and new financial incentives, to encourage solar power industry development (private sector) and consumer uptake, including removal of import tariffs on components; introduction of subsidies and tax								
	credits to promote investment in, and installation of, solar units; and clarification of IPP policies, with inducements to accelerate solar PV power plant development throughout Iraq.								
								*	
	- Action: Recruitment of Project Associate	x	×	x	x	62000	71400	UNDP	50,00
	-Action Contractual Services					62000	71400	UNDP	
	-Action Recruitment of Int'l consultant to develop (1) regulations and laws allowing generation and sale of	х	x	x	x	62000	71200	UNDP	75,00
	-Action Recruitment of national consultant to support the development of the RE policy	x	×	×	x	62000	71300	UNDP	25,00
	- Action: Organizing Traiing/Workshop		x			62000	75700	UNDP	5,50
	- Action: Travel		×			62000	71600	UNDP	17,50
seline 2: There have been early-stage cussions between MoE and UNDP on t-metering. There have been no ncrete steps or commitments.	2.2. Activity Result: Examination of inter-connections between distributed power producers and the grid, design of a feed-in tariff and net-metering options, and support to the Government to implement the feed-in tariff and/or net-metering scheme; evaluation of tendering schemes where appropriate.	7.00							
	-Action Recruitment of int'l consultant to design (1) a feed- in tariff for renewable energy IPPs with appropriate pricing	×	x	x	x	62000	71200	UNDP	75,00
	-Action Recruitment of national consultant to support in field to design a feed in tariff and net metering options	×	×	×	×	62000	71300	UNDP	25,00
	- Action: Organizing Training/Workshop				×	62000	75700	UNDP	5,50
	- Action: Travel     2.3. Activity Result: Development of a renewable energy database (solar map) containing site-specific data on RE potential to facilitate investment decisions.				X	62000	71600	UNDP	17,50
	-Action Recruitment of int'l consultant to support (1)					62000	71200	UNDP	
	- Action: Organizing Traiing Workshop					62000	75700	UNDP	
	- Action: Travel					62000	71600	UNDP	
icators: Existence of RE policies and is encouraging deployment.	2.4. Activity Result: Development of the feed-in tariff as a policy NAMA, with corresponding baseline, MRV and						3-		
stence of a clear set of regulations I technical and regulatory uirements for connecting to the grid. ume of investments mobilised for	institutional systems developed.  -Action Recruitment of int'l consultant to develop (1) a set of guidelines to establish national NAMA eligibility and design criteria, support (2) the Iraqi DNA capacity as the					62000	71200	UNDP	
ar PV power.	national coordinating institution and quality assurer for NAMAs, establish (3) a baseline for calculating emission								
					1	62000	75700	UNDP	

Expected Outputs  and baseline, associated indicators and annual targets	Outputs/Activities	Outputs/Activities 2015 Fund	Fund	Budget	Responsible				
	List acticvity results and associated actions	Qi	Q2	Q3	Q4	Source	Description	Party	Amount (USD)
tribution and transmission (for small-	- Action: Travel					62000	71600	UNDP	

Expected Outputs	Outputs/Activities		20	15		Fund	Budget	Responsible	
d baseline, associated indicators and qual targets	List acticvity results and associated actions	Q1	Q2	Q3	Q4	Source	Description	Party	Amount (USD)
	NAME OF TAXABLE PARTY.					250	Total of	Output 2	796,00
ctive/ Outcome 3	3.1. Activity Result: Solar power market demand/industry								
	response strategy developed for Iraq, informed by case- studies from other countries with developed solar power industries, domestic market analysis, and clarification of Iraqi private sector opportunities for distributed solar PV power production. Iraq private sector and Government agencies exposed to all aspects of the industry (technology development, supply, servicing, financing).								
	- Action: Contractual Service	74				62000	61300	UNDP	
	-Action Recruitment of int'l consultant to develop (1) a database of solar market participants (installers.					62000	71200 75700	UNDP	65,00
	- Action: Organizing study tours (travel) 3.2. Activity Result: Development and delivery of certified technical training on solar PV technologies (hybridization, supply, service) for emerging private sector companies.				х	62000	73700	CNDP	03,00
	-Action Recruitment of Int'l consultant to develop (1) training materials and twin-track academic and vocational	ľ				62000	71200	UNDP	
	-Action Recruitment of national consultant to support in field to develop certified technical modules					62000	71300	UNDP	
	- Action: Organizing Training Workshop					62000	75700	UNDP	
	- Action: Travel					62000	71600	UNDP	
	3.3. Activity Result: Development and delivery of dissemination sessions on future IPP involvement in the electricity supply network, including relationships with technology firms and Government agencies, feed-in tariffs, and net-metering options.								
	-Action Recruitment of Int'l consultant: to support (1)					62000	71200	UNDP	
	- Action: Organizing Traing Workshop					62000	75700	UNDP	
eline 3.:No effective capacity ding exists for the industry. There cators: Number of individuals and anisations capable of supporting vity in the Iraqi solar market. ords of PV market prices,	-Action: Travel					62000	71600	UNDP	
gets: Solar power market nand/industry response strategy seloped for Iraq, informed by case									
noral Managoment Sonice	1 Activity Pacult Support the implementation of the		1				19981	of Output 3	65.00
neral Management Service	Activity Result: Support the implementation of the project								
	- Action recruitment of int'l consultant	x	×	×	×	4000	71300	UNDP	46,94
	-Action IT equipment	x	x	х	x	62000	72800	UNDP	1,50
	-Action Misc.	x	x	x	x	62000	74500	UNDP	9,09
	Project Management Costs	1							
	Audit					62000	74100	UNDP	CONTRACTOR OF THE STATE OF THE
	Common premisis (\$8,593)					62000	73100	UNDP	
	Communication 2.5%	×	x	x	x	4000	73100	UNDP	
	Communication1%					62000	72400	UNDP	
	Evaluation 2%					62000	74100	UNDP	
	Security Cost 4%	x	x	х	х	4000	74100	UNDP	
	Security Costs 3.5%	x	×	×	×	62000	74300	UNDP	22.64

Expected Outputs  And baseline, associated indicators and annual targets	Outputs/Activities  List acticvity results and associated actions		20	)15		Fund Source	Budget  Description	Responsible Party		
		Q1	Q2	Q3	Q4				Amount (USD)	
									83,241	

Signature & Date

Project Manager: MD. FARIKUL ISLAM Chuichy IL

NDP Country Director Signature & Date