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Rural Electricity Development Program (REDP) Work Plan March 2008 – February 2009



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ABBREVIATIONS

BPDB	Bangladesh Power Development Board
BSTI	Bangladesh Standards and Testing Institute.
CAP	Country Assistance Plan (DFID)
CFR	Carriage and Freight (Incoterm)
CIF	Carriage Insurance and Freight (Incotem)
CPT	Carriage Paid To (Incoterm)
DFID	Department for International Development
GBP	Pound (Sterling)
GOB	Government of Bangladesh
IPP	Independent Power Producer
MDG	Millennium Development Goals
MIS	Management Information System
MOF	Ministry of Finance
MPEMR	Ministry of Power, Energy and Mineral Resources
MW	Megawatt (1000 kW)
NGO	Non-Governmental Organisation
NRECA	National Rural Electrification Cooperative Association
PBS	Palli Bidyut Samity (Rural Electricity Cooperative)
PKSF	Palli Karma Sahayak Foundation
PPR	Public Procurement Regulations
REB	Rural Electrification Board
REDP	Rural Electrification Development Program
TOR	Terms of Reference.
USD	United States Dollar
USAID	United States Agency for International Development
£	GBP (Pound Sterling)

SUMMARY

This work plan for the year March 2008 through February 2009 has been formulated from the original NRECA submission for the REDP, incorporating any necessary modifications resulting from practical information acquired during the first two years of the project.

During the project's first two years NRECA focused mainly on the Materials Procurement Process of Task A. Both the Member Awareness Education and Board Development Task B and Socio-Economic Impact Assessment Task C proceeded forward. Following few successful bid openings on 2006 and 2007, the first and second tranche of the material procurement exercises culminated in March 2008 with completion of bid evaluations by REB and NRECA. On the basis of the initial bids, the Procurement Directorate of REB has awarded of 25 procurement contracts out of 54, re-tendering of 11 sub-packages, and has yet to opted 18 sub-packages.

Following extensive consultation with REB, emphasis during the third project year will be placed on efforts to ensure that quality materials and equipment are being delivered, in compliance with the specifications accepted by the vendors. This will require some level of periodic inspection of commodities both pre/ post delivery to REB/PBSs.

The third tranche of materials procurement has been scheduled to commence during August 2008. With the third tranche of procurement an opportunity will be taken to reinforce the positive aspects of the first two tranches procurement, eliminate remaining anomalous bid conditions, and to try and improve competition.

Ensuring the procured materials are properly utilized will require monitoring material issuance according to the requirement of each project based on master plans. During the period of 2008-2009 NRECA will focus on the Subtasks of Task A related to verifying the planning and physical development of the PBS distribution systems by crosschecking a selected number of the PBS master plans and reviewing a sample of staking procedures.

Member Awareness Education and Board Development Program, Task B, will be expedited to meet the original NRECA proposal. Task B is less dependent on external factors outside of REB and PBS control than Tasks A and C, and consequently the work schedule for this aspect of REDP will follow the original plan.

The Socio economic impact Task will involve undertaking the baseline study for the project; however the two fundamental factors having potential negative effect on the result still remain. Firstly, a power deficit is expected to continue throughout the duration of the REDP project, limiting both construction of system and the development of power usage. The Ministry of Power has specifically limited system construction to densification of existing networks, so new extensions are likely to be limited for some time, and this will limit the area in which impacts resulting from access to power are likely to occur. Secondly, the shortage of power will also affect the willingness of consumers to undertake what would otherwise be normal investments in power consuming equipment, which will also affect the outcome of the impact study. In particular the potential improvements in commercial activity are likely to be limited due to unwillingness to risk investment in the face of inadequate power supply. Nonetheless, the commencement of a baseline study will be undertaken, but unfortunately, within the project life span of the REDP, a follow up study to assess impact is considered most unlikely to indicate anticipated results.

SECTION 1: INTRODUCTION

1.1 Background to the Rural Electrification Development Program (REDP).

"The overall programme cost is £161 million. The GOB will contribute £122 million through the Annual Development Programme (ADP), and DFID will contribute £38 million for investment components to REB through the Ministry of Finance. The remaining DFID funds will be used for microfinance (£10 million), management, supervision and monitoring (£1 million), and education and awareness building (£1 million). Disbursement procedures accord with existing rules to fund GOB agencies, donors and NGOs. As has been the case to date with the REB program, the PBSs who receive the infrastructure improvements will recover the full cost of operation, maintenance and asset replacement through user charges on the basis of low interest loans from REB.

REDP represents a five-year DFID commitment of up to £50 million to increase the provision of electricity in rural and peri-urban areas of Bangladesh. This will be achieved through a package of financial support for electricity network expansion and intensification within the Second Rural Electrification Master Plan (2000-2020). The program will provide 1.35 million new electricity connections to households and rural businesses, directly benefiting up to 10 million people. A microfinance component is included to enable poorer households and small businesses to cover the connection charge and develop new income earning opportunities. If successful, the program will supply electricity to up to 20% of the unconnected rural population.

DFID will support three investment components of the REB Master Plan. Grid expansion, which is expensive but essential, intensification, which is less costly, but connects large numbers of customers to existing infrastructure, and some 33kV subtransmission improvements. DFID will pay for the foreign exchange elements, which are heavier in main grid expansion than intensification work while the Government will pay for local costs. These components are the main immediate priorities of REB for investment. While DFID is seeking to enhance the poverty impact of the programme, our approach is to support the overall REB Master Plan, not 'cherry-pick' specific sub projects.

First, a major expansion of the main distribution infrastructure backbone in 9 PBS will be supported. The total investment cost of this component is £27 million, with which 8,000 km of new line will be constructed and 2,000 km renovated. These PBS were established by the REB in the mid to late 1990s and have received little additional investment since that time. They are all located in more remote, poor areas of Bangladesh. DFID support will enable additional villages to be connected to the rural grid, together with an increase in the number of connections (intensification) through the construction of new spur lines from the existing backbone within these nine PBS. The cost of intensification is relatively modest, and will enable 250,000 poor households and a large number of enterprises located near the backbone grid to be connected. This component will account for approximately 71% of the project's total investment package.

Second, DFID will support intensification in 56 existing PBS, at the cost of £8 million. This will involve the construction of one and two-pole lines 35 to 100 meters long from existing lines, linking households and enterprises located near the backbone grid. It will connect 1,000,000 new consumers with a relatively low investment. This component will account for approximately 21% of the project's total investment package.

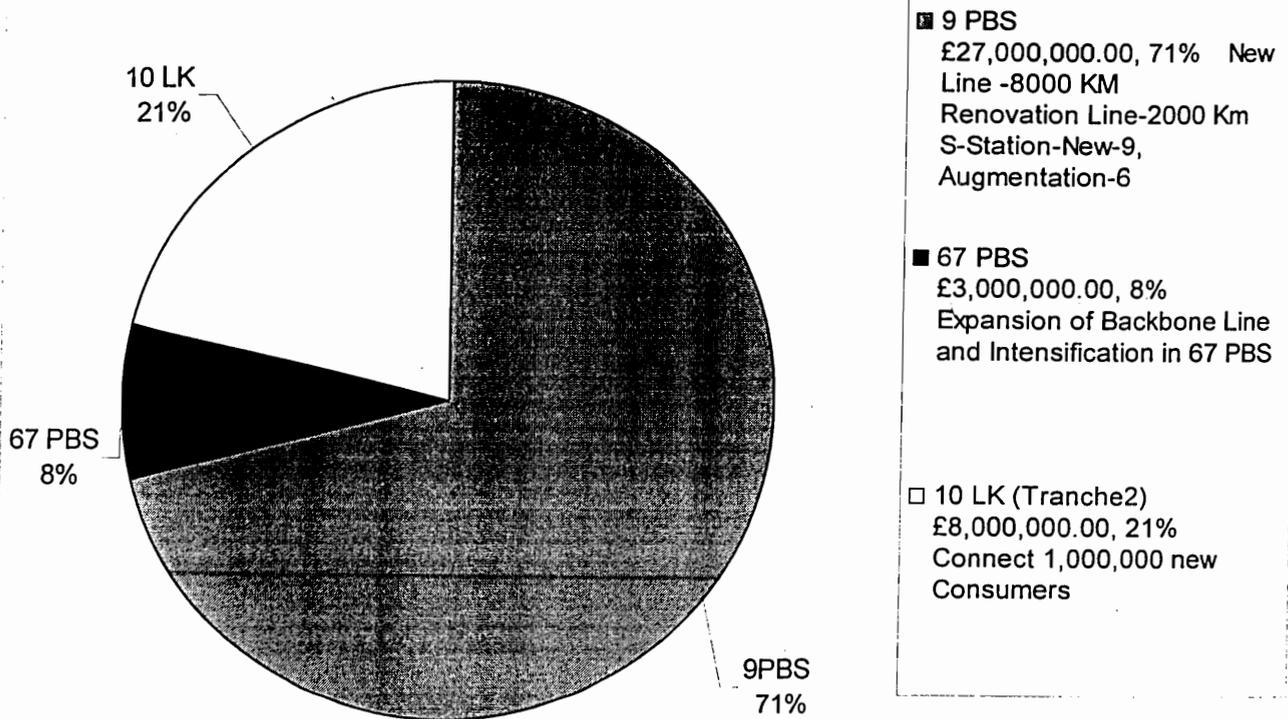
Third, the investment package will provide some support to the expansion of the main backbone infrastructure and intensification in 67 PBS. DFID will be funding only the poorer PBS with lower revenue generation potential. The investment cost of this component is £3 million. This component will connect 100,000 households and a number of businesses in more remote locations. This

component will account for approximately 8% of the project's total investment package".

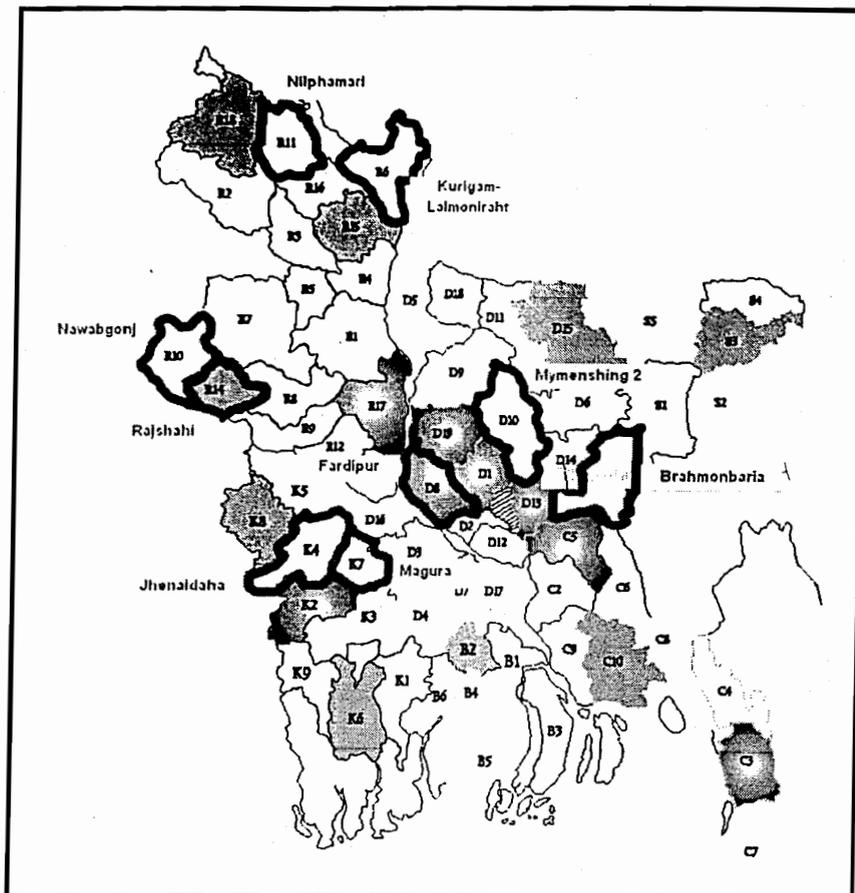
(Extracted from DFID Project memorandum for REDP)

Contribution of DFID – Project wise (9PBS, 67 PBS & 10 Lakh Consumer) for material procurement
£38 million

REDP Project Wise Fund Allocation



1.2 9PBS Receiving Principal Support from REDP



Name of PBS	Name of Thana	Name of District	Area (Sq.Km.)	No. of Villages	Population	Name of PBS	Name of Thana	Name of District	Area (Sq.Km.)	No. of Villages	Population
Rajshahi	Boalia	Rajshahi	96.88	-	294056	Nawabgonj	Bholahat	Nawabgonj	123.52	91	70507
	Durgapur	Rajshahi	195.03	122	137640		Gomastapur	Nawabgonj	318.13	235	191972
	Godagari	Rajshahi	472.13	396	217811		Nachole	Nawabgonj	283.68	190	97119
	Mohanpur	Rajshahi	162.65	154	126396		Nawabgonj	Nawabgonj	451.80	192	389524
	Paba	Rajshahi	280.42	261	213379		Shibgonj	Nawabgonj	525.43	367	422347
Brahmanbaria	Tanore	Rajshahi	295.39	207	138015	Mymensingh-2	Bhaluka	Mymensingh	444.05	102	264991
	Akhaura	Brahmanbaria	99.28	125	112982		Gafargaon	Mymensingh	401.16	218	379803
	Banchharampur	Brahmanbaria	217.38	118	258371		Trishal	Mymensingh	338.98	160	336797
	Brahmanbaria	Brahmanbaria	495.85	398	659449		Sreepur	Gazipur	465.24	186	320530
	Kashba	Brahmanbaria	209.76	236	243833		Magura	Magura	Magura	406.50	252
Nabinagar	Brahmanbaria	353.66	198	378539	Mohammadpur	Magura		234.29	182	160340	
Nasirnagar	Brahmanbaria	311.86	129	234090	Shalikha	Magura		228.64	118	132291	
Sharail	Brahmanbaria	239.52	146	254481	Sreepur	Magura		179.18	160	144471	
Jhenaidah	Harinakunda	Jhenaidah	227.19	129	162078	Faridpur		Alfadanga	Faridpur	136.00	118
	Jhenaidah	Jhenaidah	467.75	283	333192		Bhanga	Faridpur	216.34	227	214702
	Kaligonj	Jhenaidah	310.16	196	219126		Boalmari	Faridpur	272.34	255	190159
	Kotchandpur	Jhenaidah	165.66	79	107193		Char Bhadrasan	Faridpur	141.59	129	69876
	Maheshpur	Jhenaidah	416.96	194	246350		Faridpur	Faridpur	407.02	298	335386
Kurigram	Shailkupa	Jhenaidah	373.42	258	293341	Madhukhali	Faridpur	230.20	238	165438	
	Bhurungamari	Kurigram	236.00	124	176822	Nagarkanda	Faridpur	379.02	335	267193	
	Chilimari	Kurigram	224.97	152	100516	Sadarpur	Faridpur	290.21	287	172059	
	Fulbari	Kurigram	163.63	165	129668	Nilphamari	Dimla	Nilphaman	327.00	58	180000
	Kurigram	Kurigram	276.45	256	217311		Domar	Nilphaman	251.00	47	152000
Nageshwari	Kurigram	415.30	367	279775	Jaldhaka		Nilphamari	326.00	77	189000	
Rajarhat	Kurigram	166.23	180	158648	Kishoreganj		Nilphamari	265.00	130	202000	
Ulipur	Kurigram	504.19	418	345205	Nilphamari		Nilphaman	351.00	107	242000	
Total Area (Square km)	15,371										
Total Population	11,696,570										

1.3 Contractual Project Tasks

1.3.1 Task A: Supervision and Monitoring:

The Supervision and Monitoring Task will require involvement with the planning and physical development of the PBS distribution systems and therefore will be the major focus of NRECA work throughout the life of the project. This effort will include sub-tasks such as crosschecking a selected number of the PBS master plans in order to confirm that the key elements of the master plan development and updating processes are being properly incorporated, as well as verifying the project selection process used to identify projects to be constructed under the DFID grant. Monitoring project execution will involve following material procurement and inspecting construction activities. Participating in the material procurement process for both local and foreign source goods will be necessary to ensure that solicitations and evaluations are transparent and carried out in accordance with REB procedures and procurement policies. DFID, through its project development process and discussions with the GOB, REB and other donors has confirmed that NRECA will have the responsibility to review and provide concurrence on all procurement actions using DFID project funds and will be accorded the necessary cooperation from all parties in order to do this work. Emphasis will be placed on efforts to ensure that quality materials and equipment are being purchased with the project funds, including a modicum of periodic inspection of these commodities either prior to or upon delivery to REB/PBS.

Ensuring the procured materials are properly utilized will require monitoring material issuance and construction reports in order to ensure that projects are completed in accordance with plans. Periodic field visits to a selected number of projects will be conducted to provide a crosscheck and verification of the construction reports and other related documents.

1.3.2 Task B: Member Awareness Education and Board Development Programs:

The development of member awareness/education and PBS Board Development programs will initially be treated as a separate task. NRECA plans to build on some of its earlier work with REB and the PBS in the area of providing technical assistance related to member awareness education and PBS Board development. The activities will focus on raising member consumer participation levels from reactive to proactive, as a way of empowering the membership to take responsibility for their actions and decisions. This work will provide strong support for the need to continually enhance these two key institutional areas as was identified in the RE Study Report completed by NRECA under USAID funding in January 2005. In addition, this work will be complementary to the work NRECA did under the RPPR Program's Task C.2 (Strengthening Training Programs and Procedures), particularly with respect to the development of curriculum materials for all types of training programs.

Specifically this Task will involve working with the REB Training Directorate, as well as the REB Management Operations Directorates in order to ensure that the content and approach for these newly developed programs are appropriate to the PBS system. The new programs will emphasize the roles and responsibilities of members and management in relation to ensuring transparency and accountability and addressing poverty and gender priorities in PBS planning and operations. The PBS Member Services Departments will be directly involved with the implementation of these member awareness/education programs, while the REB Training Directorate will conduct the PBS Board Development programs. NRECA will work with REB and the PBSs to explore the most effective approaches for successfully implementing the member awareness/education programs with consideration being given to the improved utilization of the PBS Village Advisors. Following the development of the programs and their initial

implementation through the REB and PBSs, the ongoing oversight and monitoring of this initiative through the end of the project will become part of the overall Supervision and Monitoring Task. This is expected to occur at the halfway point in the project.

1.3.3 Task C: Socio-Economic Impact Assessment:

Conducting the work related to establishing the baseline and completing the assessment study is a separate Task, but will be coordinated with the Monitoring and Supervision Task. Demographic and socio-economic data will be gathered to provide reliable evidence that measures the impact the DFID funded RE expansion project has had on the rural people who live in the participating PBS service areas. A solicitation process will be carried out with the objective of selecting a socio economic contractor to perform a baseline study of conditions existing prior to project implementation and a follow up study at the end of the project. The study design will involve assessing not only before and after conditions in the areas electrified by the projects, but before and after conditions in a control group of un-electrified villages to ensure that the impacts identified are actually due to electrification and not to general economic improvement. In addition, some specific data and related information (socio-economic, gender, poverty, etc.) will be gathered during the midpoint of the project in order to support the mid-term review that routinely occurs on DFID-funded projects.

1.4 Project Team for March 2008 through February 2009

Anticipated project team for the REDP during the period March 2008 through February 2009 will consist:

<u>Person</u>	<u>REDP Duties</u>	<u>Tenure</u>
James Ford/New COP - TBA	Chief of Party	Full Time
James VanCoevering	Engineering Director	Part Time
Eric Gibbs	Socio Economist	Part Time
E.D. Stanley	Material Inspection Consultant	Part Time
Maruf Hasan Bhuiyan	Project Engineering	Full Time
Md Hasibur Rahman	Project Engineering	Full Time
Shafiquzzaman	Project Engineering	Part Time
ABM Selim Jahid Faruque ABM Firoz Zillur Rahman Zakir Hossain	GIS Team	Part Time
Shital Krishna Das	Socio Economic Consultant	Contracted Part Time
Brigadier (rtd) M A Malek / Syed Nurul Islam	Local Management Specialist	Part Time
Narayan Chandra Saha	Education and Training Specialist	Full Time
TBA	Cooperative Development Specialist	Part Time
TBA	Local Engineers Master plan field team	Part Time

SECTION 2: PRIMARY OBJECTIVES

2.1 Primary Objectives (March 2008 through February 2009)

2.1.1 Supervision and Monitoring (Task A)

Primary objectives of the NRECA input to the project will be to:

- Verify materials selection by REB is consistent with REDP requirements.
- Assist REB with materials procurement under the second tranche of project procurement to verify, or otherwise, compliance with GOB Public Procurement Policy 2003.
- Report on REB compliance with REDP and GOB requirements.
- Review REB bid evaluation process and if acceptable to provide concurrence on proposed contract awards.
- Assist REB with re-evaluation when bid evaluation is considered not acceptable.
- Conduct Pre-contract factory inspections when appropriate.
- Conduct pre delivery inspections for specific materials such as meters and transformers.
- Assess materials storage and delivery to PBS.
- Crosschecking a selected number of the PBS master plans.
- Review PBS construction plans.
- Review selected Staking procedures.
- Report on progress of Task A in accordance with contractual requirements.
- Report on aspects of REDP considered to require attention by DFID or USAID.

2.1.2 Member Awareness Education and Board Development Programs (Task B)

Primary objectives of the NRECA input to the project will be to:

- Continue with the ongoing implementation of the member education program that involved the delivery of workshops with participants from the PBSs as means of enhancing the capacity of PBS Member Services personnel, Board Members, Village Advisors and PBS members.
- Work with PBSs to REB Training Directorate to “institutionalize” the delivery of these member education programs within the PBSs through village meetings and the direct involvement by the Village Advisors.

- Initiate training for newly elected PBS Directors using previously developed programs with the delivery at a minimum of the "Orientation to RE Program" one-week program and begin delivery of the "Understanding the Financial Reports" program.
- Examine options for establishing requirements for a certification program for PBS Directors.
- Prepare necessary reports on progress of Task B in accordance with contractual requirements.

2.1.3 Socio-Economic Impact Assessment (Task C)

Primary objectives of the NRECA input to the project will be:

- Complete contracting of local consulting firm (HDRC) selected to carry out the baseline and impact socio economic studies
- Supervise and monitor the completion of the baseline Socio Economic Study and one Annual Review.
- Serve as resource to stakeholders on issues related to the completion of the baseline study.
- Report on progress of Task C in accordance with contractual requirements.

SECTION 3: PROJECT ACTIVITIES

3.1 Task A Supervision and Monitoring

As indicated in Section 2, primary objectives of supervision and monitoring during the year to February 2009 are to concentrate on meeting the requirements of the materials procurement process, carrying out periodic inspection of these materials both pre and post delivery to REB/PBS and review project PBSs master plans .

Procedures, personnel, and systems within REB for international and domestic materials procurement are well established. Under the REDP, NRECA will observe the proposed REB methodology for DFID funded materials procurement and by consensus effect alterations necessary to ensure compliance with GOB PPR.

Experience with the first & second tranches of procurements have indicated a high level of competence and knowledge about procurement techniques on the part of REB personnel. In addition these personnel have also indicated a willingness to consider approaches to the REDP procurement that will enhance the process and satisfy the requirements of DFID. However, NRECA has observed the need to verify that commitments made by suppliers with respect to compliance with specifications are in fact met, so as to maximize value from available funds. NRECA has also observed the need to update some technical specifications to reflect advances in the industry and has therefore proposed increasing the involvement of NRECA engineering personnel in the activity.

In all, procurement of materials will be realized in three tranches. REB Procurement Directorate has awarded contracts for 25 sub-packages out of 54 in first two tranches. To ensure the quality of these materials Inspection and Testing Directorate of REB is carrying the pre/post inspection and testing of these materials and NRECA representatives are closely monitoring this activity.

Parallel to the material procurement, preliminary work for supervision and monitoring of construction work will begin. These Subtasks include assessing materials storage and delivery to PBS; crosschecking a selected number of the PBS master plans in order to confirm that the key elements of the master plan development and updating process are being properly incorporated; reviewing PBS construction plans and reviewing of selected sampling of staking procedures.

A "Master Plan Field Team" comprised of sub- teams of local engineers who will travel to the field to conduct the above mentioned crosschecking using criteria developed by NRECA's local project Engineers with the support of the NRECA expatriate Engineering Director. NRECA will utilize a geographic information system (GIS) techniques to collect the required field information and provide a platform for comparison between the master plans and actual results.

In addition to the DFID general requirements, four core procurement monitoring subjects were identified and will be followed as requiring special attention.

1. Bid Packages: NRECA shall monitor the appropriateness of bid package size and financial value for soliciting sufficient national and international bidding to ensure genuine competition. NRECA staff will also update critical technical specifications to reflect the state of the art in the industry.
2. Unfair Conditions for Bidders: NRECA shall monitor bid documentation for any unfair conditions.

3. Advertising: NRECA shall monitor materials procurement advertising to ensure sufficient attention is given to attracting genuine competition.
4. Concrete and Wood Poles: NRECA shall monitor existing pole stocks and appraise usage of new poles purchased under REDP.

These core subjects will be closely monitored during the procurement process.

Schedule for components of Task A is provided in Section 3.1.5 to 3.1.6

3.1.1 Supervision and Monitoring Personnel

The following personnel will be engaged in the REDP supervision and monitoring process during March 2008 through February 2009

James Ford/New COP - TBA	NRECA Country Director/COP	Project Overview
James VanCoevering	Engineering Director	Part Time
E.D. Stanley	Material Inspection Consultant	Part Time
Maruf Hasan Bhuiyan	Project Engineer	Full Time
Hasibur Rahman	Project Engineer	Full Time
Shafiquzzaman	Project Engineer	Part Time
ABM Selim Jahid Faruque Zillur Rahman Zakir Hossain	GIS Team	Part Time
Other contractors	Local Engineers Master plan field team	Part Time

3.1.2 Procurement Process Monitoring

In cooperation with REB, NRECA personnel will assist in developing the materials procurement process documentation such that:

- Procurement complies with GOB PPR.
- Procurement is widely advertised to attract international competition.
- Key monitoring subjects are addressed.

Bid Evaluation Monitoring

Bid evaluation is entirely the responsibility of REB, however NRECA are charged with monitoring the process.

In cooperation with REB, NRECA personnel will monitor the bid evaluation process such that:

- Detailed inspections of the REB evaluation will be effected for selected bids.
- REB evaluation reports to be scrutinized.
- Contract award recommendations by REB to be inspected in detail.
- REB recommended contract awards considered inappropriate will be rejected and REB will be requested and assisted to re-evaluate bids.

Materials Inspection

To reduce the risk of procuring poor quality materials the following methodology will be adopted.

- Conduct Pre-contract factory inspections for materials such as meters, transformers, and conductor to reduce the likelihood of contracting poor quality manufacturers when deemed appropriate and necessary.
- Undertake materials Pre-delivery inspection and testing to reduce the possibility of delivery of unsatisfactory materials. In some cases this will involve additional inspections by NRECA personnel to supplement those inspections being carried out by REB staff.
- Report on all inspections and make appropriate recommendations to REB.

Funding for the Pre-contract factory inspections and materials Pre-delivery inspections will require agreement with USAID to reconfigure budget allocations. Meetings will be arranged between NRECA and USAID at an appropriate time to determine inspection requirements and subsequent funding requirements.

3.1.3 First and Second Tranche Material Procurement Plan Project wise

Diagram 67 PBS Materials Composition and Anticipated Contract Costs.

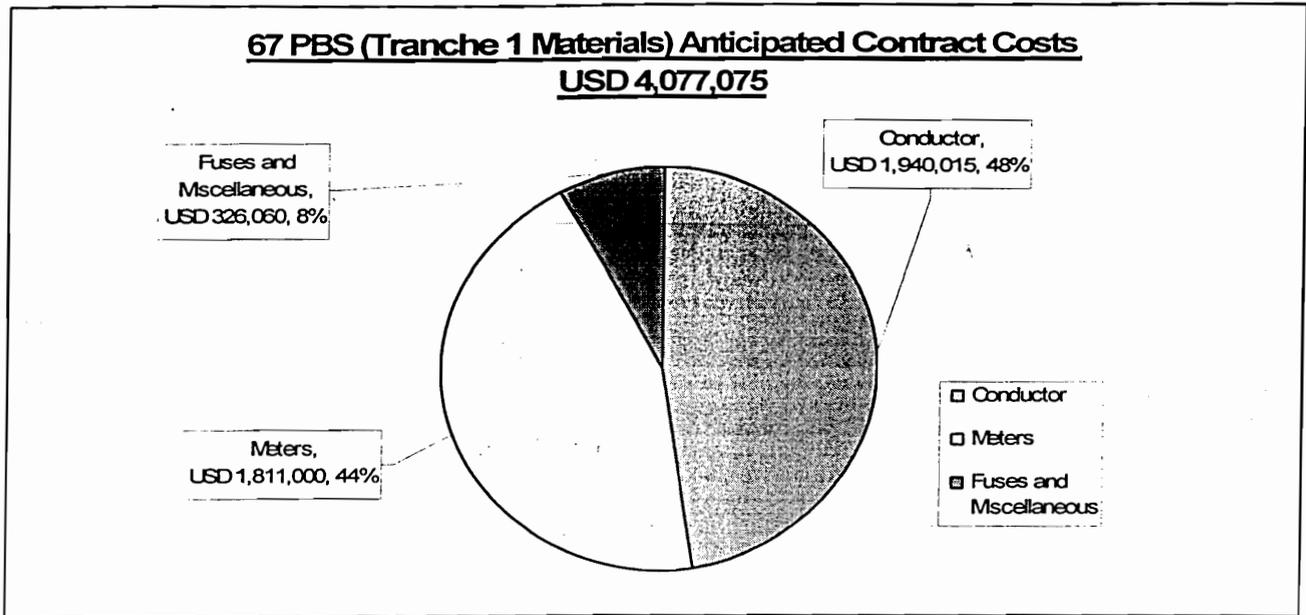


Diagram 09 PBS (Tranche-1) Materials Composition and Anticipated Contract Costs.

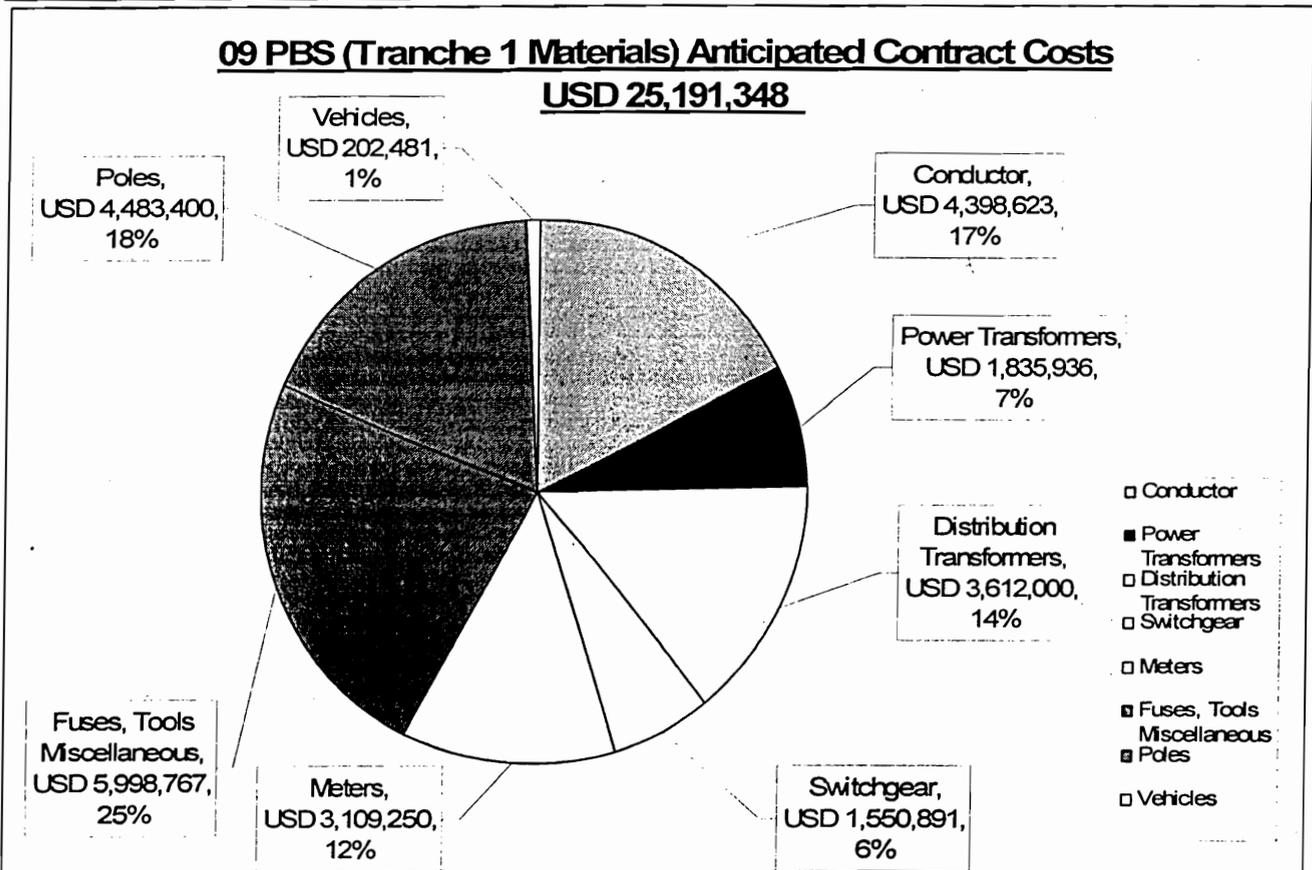


Diagram 9 PBS (Tranche-2) Materials Composition and Estimated Contract Costs.

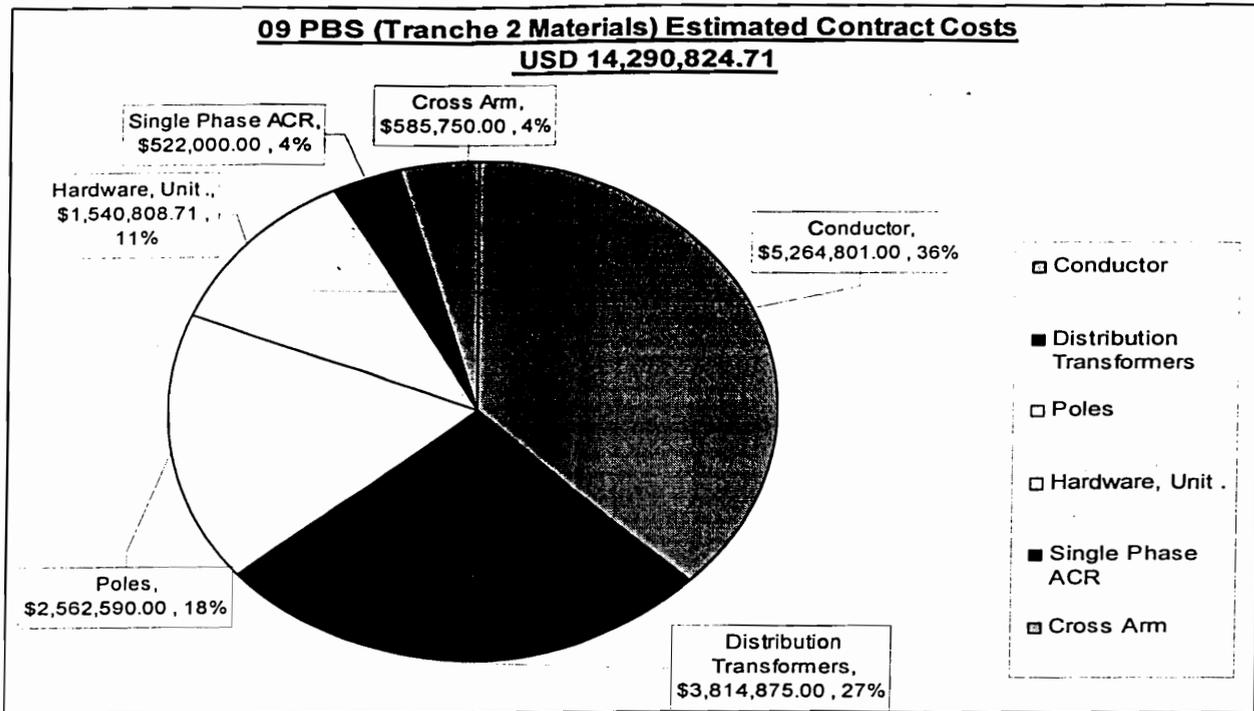


Diagram 9 PBS (Tranche-3) Materials Composition and Estimated Contract Costs.

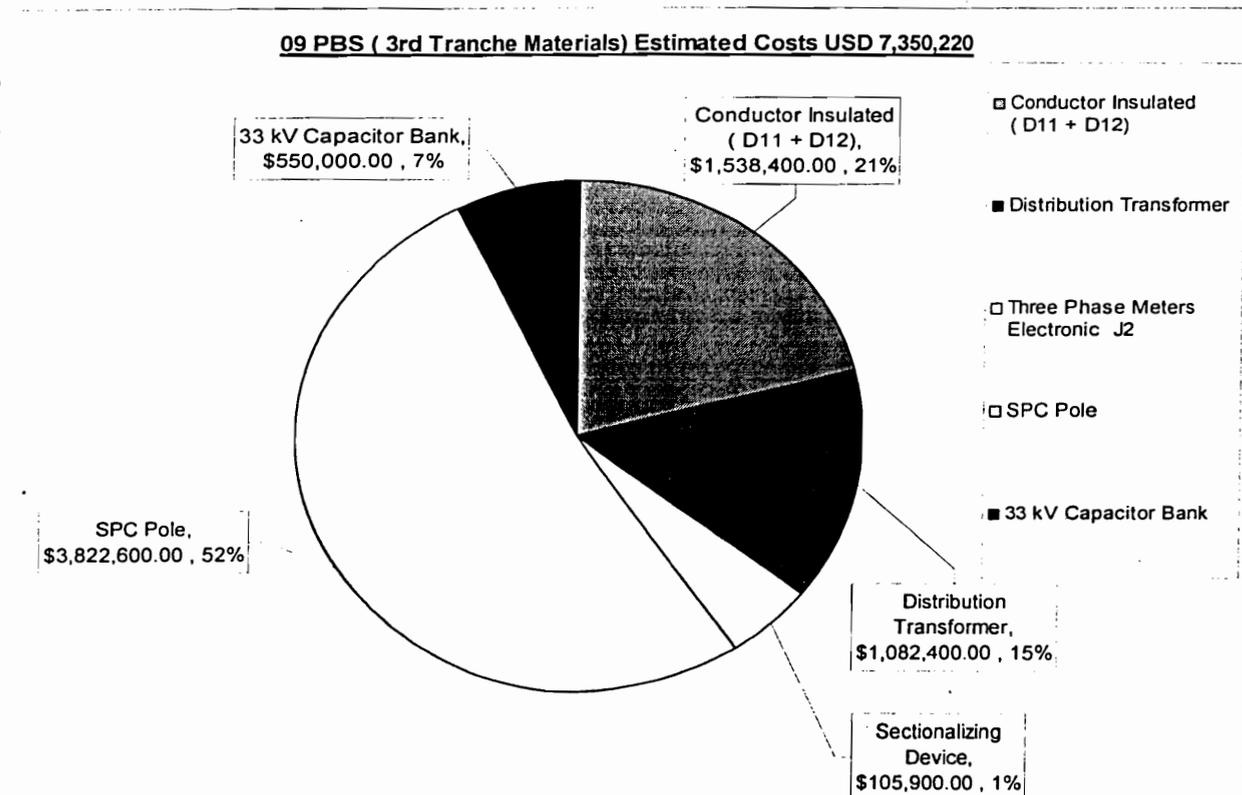
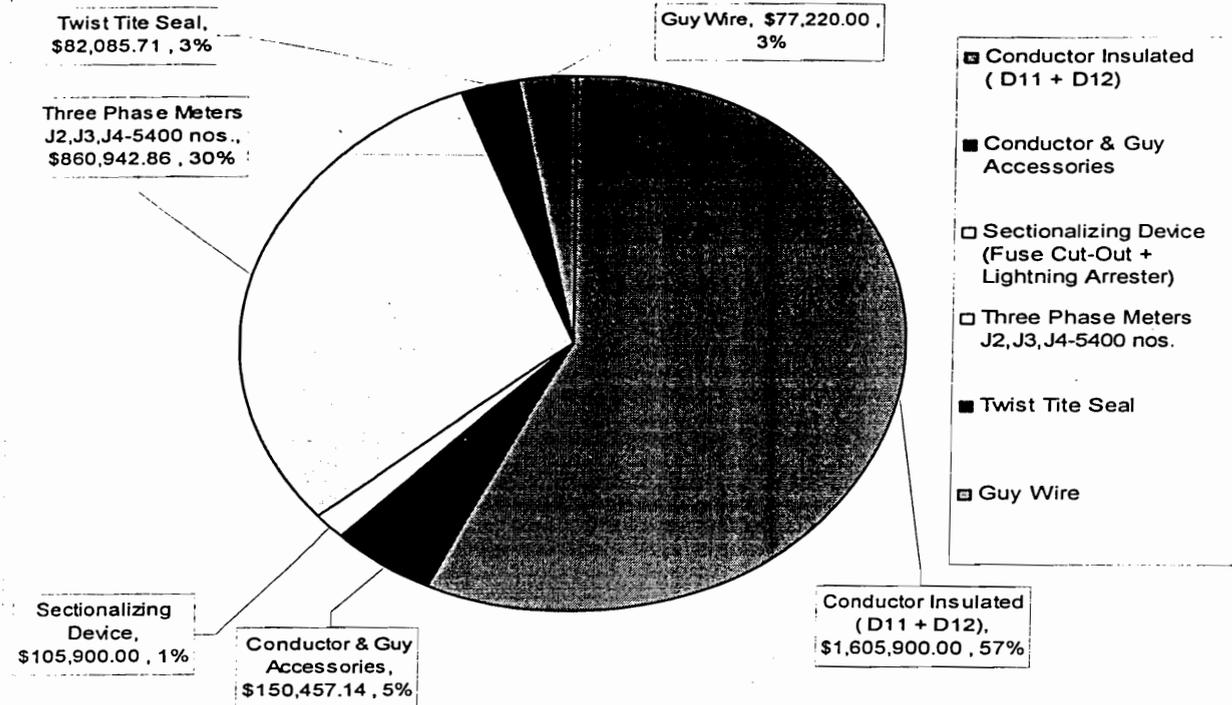


Diagram 10 Lakh Consumer Connection Under Existing PBSs Distribution Line (Tranche-1) Materials Composition and Estimated Contract Costs.

**10 Lakh New Consumer Connection Under Existing PBSs Distribution Line
(1st Tranche Materials) Estimated Costs USD 2,824,262.86**



3.1.4 Status of the First and Second Tranche Material Procurement Plan Project wise

Name of the Project	Estimated Cost (USD) 1st Tranche	Estimated Cost (USD) 2nd Tranche	Total	Actual / Signed Contract Amount (USD)	To be Contracted Amount (USD)	Recommended for Re-tendering	Total Amount (USD)
67 PBS, Allocation : £ 3.00 Million	5,064,030	-	5,064,030	1,590,675	-	3,071,860	4,662,535
9PBS, Allocation : £ 27.00 Million	26,751,617	14,290,825	41,042,441	16,377,564	8,965,285	12,815,692	38,158,541
10 Lac Consumers, Allocation : £ 8.00 Million	-	2,824,251	2,824,251	-	-	-	-
Total	31,815,646	17,115,076	48,930,722	17,968,239	8,965,285	15,887,552	42,821,076

3.1.5 Monitoring of Materials Usage

REB will utilize DFID funded materials for ongoing REDP construction projects. The construction projects are to be formulated from the individual PBS Master Plans. As Government imposed restriction on domestic connection to the PBS consumers, DFID funded materials have yet to be used for construction work, and monitoring of usage has not commenced. NRECA is in the process of preparing the monitoring methodology. REB Procurement Directorate has awarded contracts for most of the sub-packages of the first tranche, and these materials are beginning to arrive at the REB Warehouses. NRECA has Ensuring the procured materials are properly utilized will require monitoring material issuance according to the requirement of each project based on master plans. During the upcoming period NRECA will focus on the Subtasks of Task A related to verifying the planning and physical development of the PBS distribution systems by crosschecking a selected number of the PBS master plans and reviewing a sample of staking procedures.

List of each PBS construction work plan for 2008 & 2009 is provided in Section 3.1.8; Master Plan checking team of NRECA will verify these in the field with the masterplan.

Monitoring Methodology

Indicated below are basic considerations for monitoring the usage of DFID funded materials:

Task 1: Storing DFID funded materials at Khulna Warehouse

NRECA will adopt the following procedure to monitor materials:

- Assist REB with materials inspection process following delivery to warehouses.
- Report on quality of delivered materials.
- Assist REB with pursuing any rectification requirements.
- Assist Khulna Warehouse personnel with acceptable storage of all materials.
- Monitor distribution of materials to PBS.

Task 2: DFID funded Material at PBS

- Assist PBS Store personnel with storing all DFID funded materials in a separate place from existing materials.
- Randomly monitor issues of materials to construction contractors to check correct quantities.

Task 3: Monitoring of Construction Work in 9 PBS.

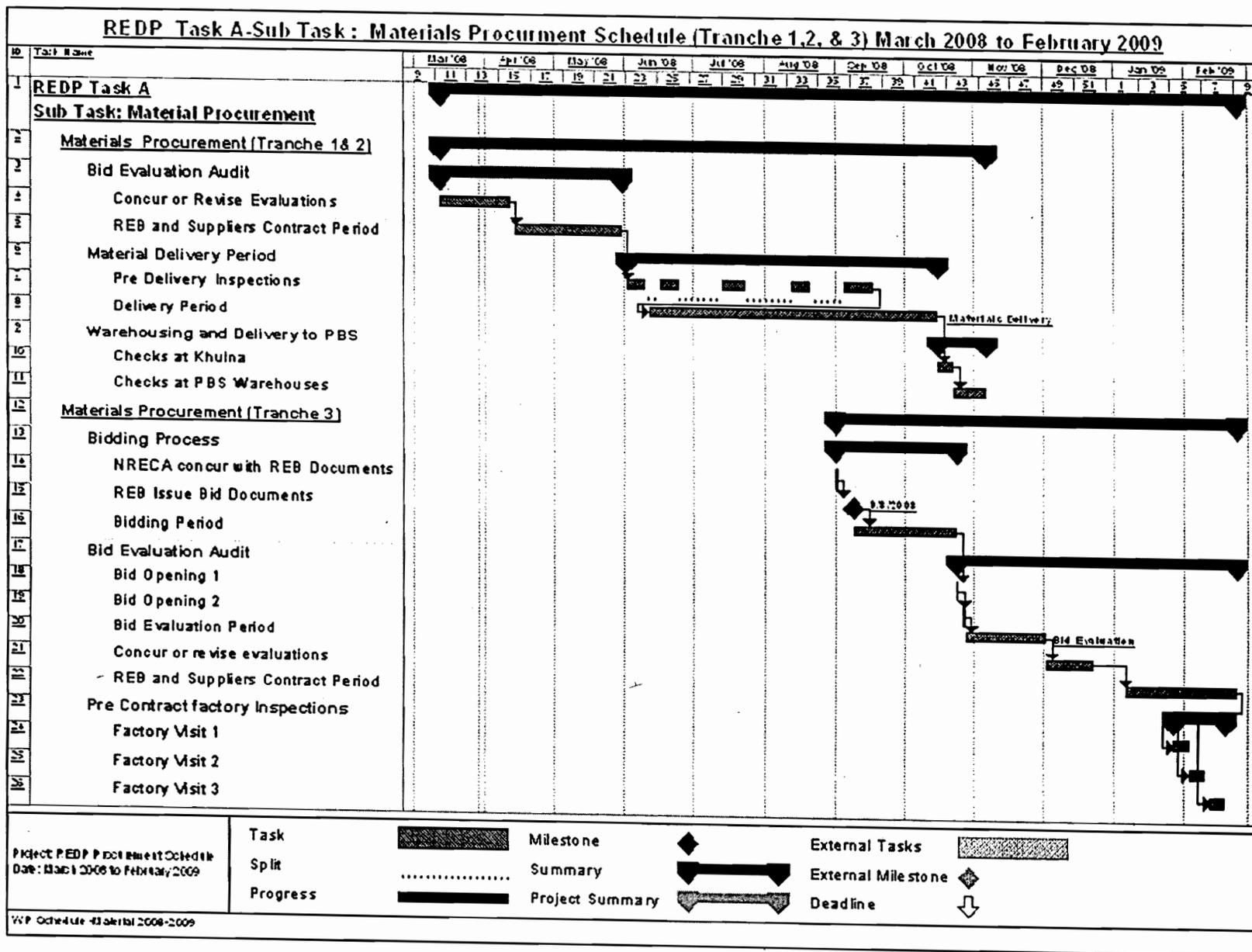
- Review selected sampling of staking procedures.
- Conduct regular inspections of construction works in each PBS.
- Review and Compare detailed construction plans with master plans.
- Compare material quantities issued with work effected.

- Monitor construction quality and compare with REB standards.
- Monitor category of customer connections with reference to DFID criteria.

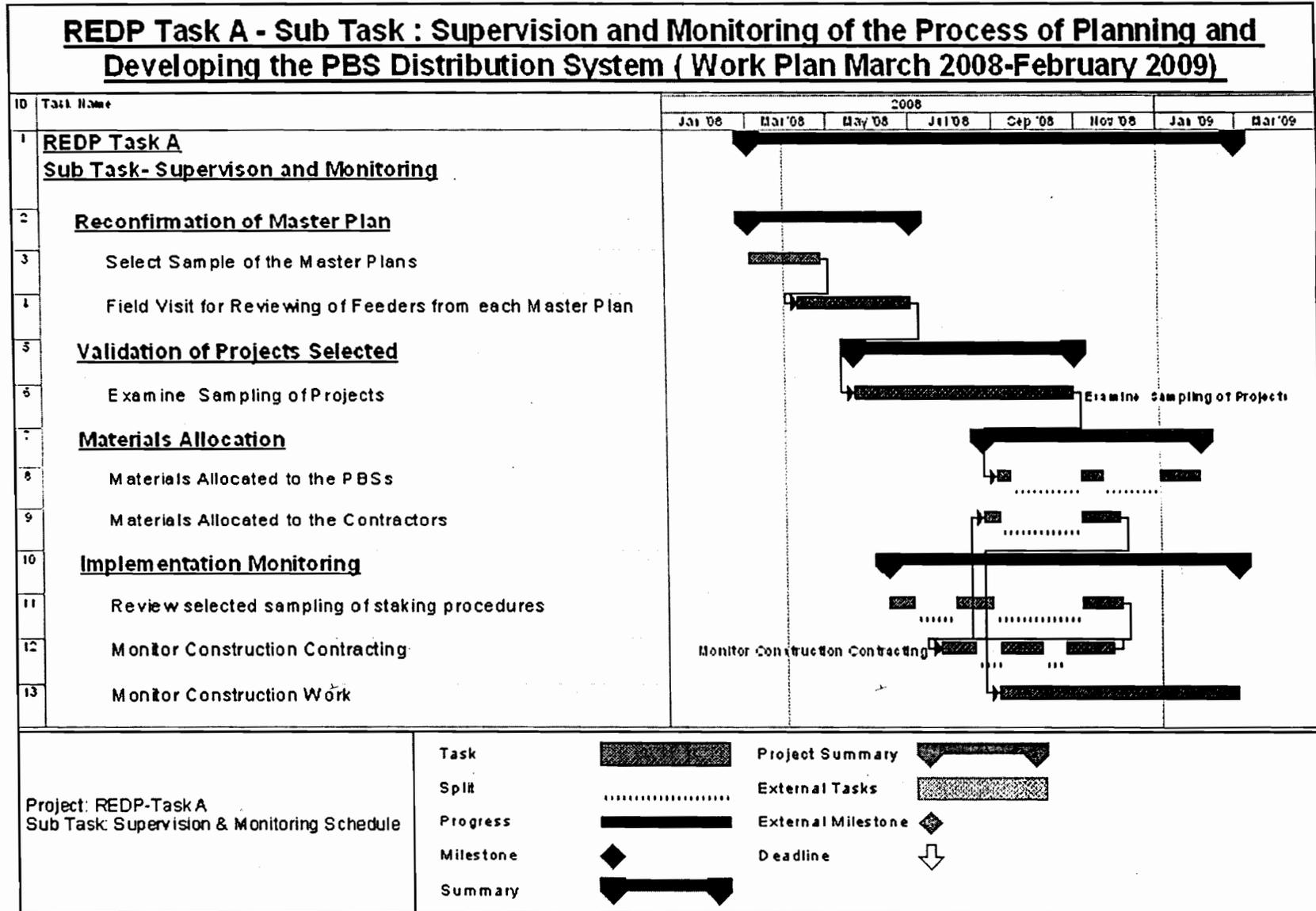
Task 4: Monitoring of materials usage in 67 PBS.

- Monitor progress of construction works and compare with issue of DFID materials.
- Check meter issues and compare with new customer connections.
- Randomly monitor issue and installation of DFID procured meters.

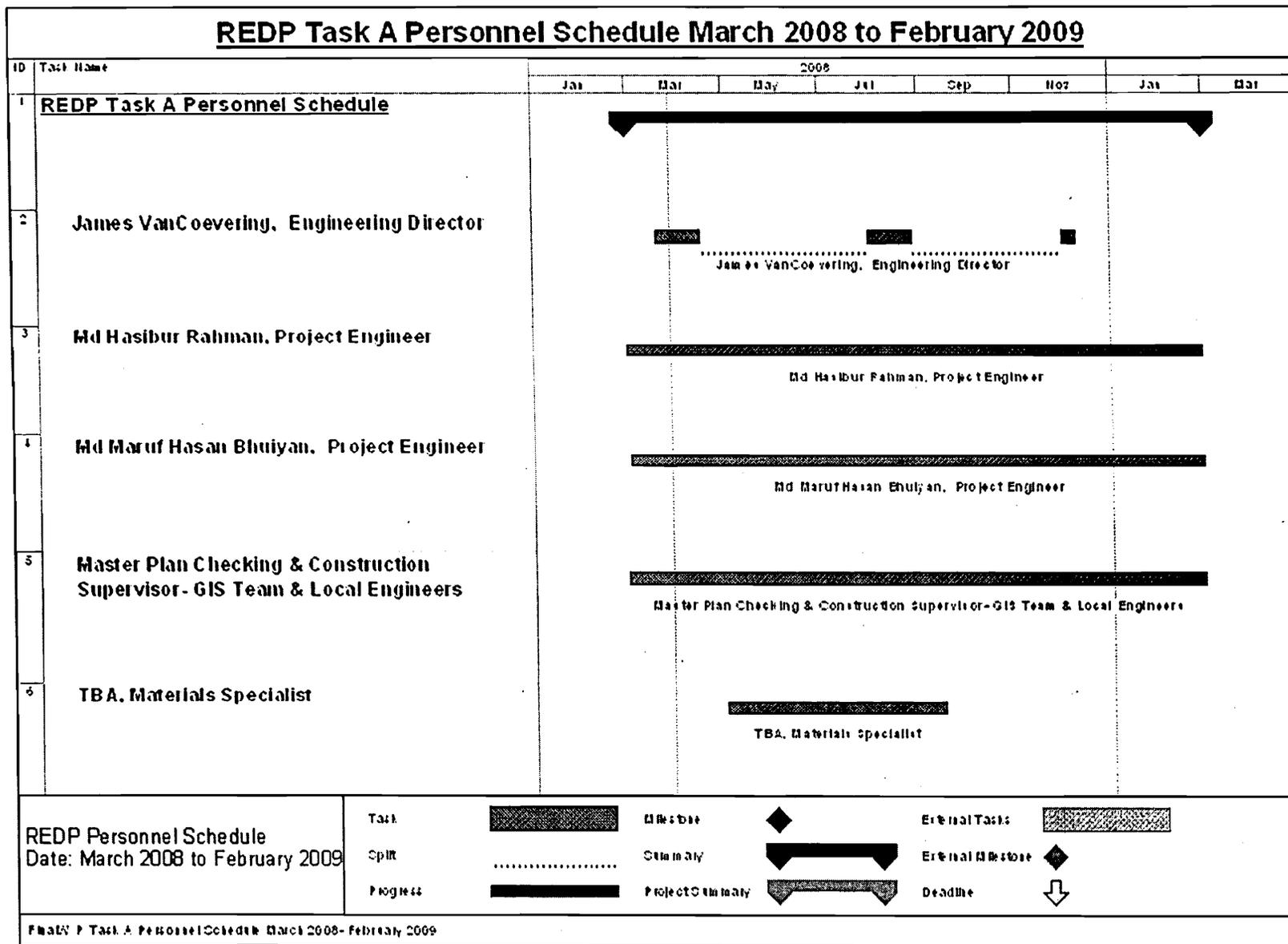
3.1.6 Task A –Sub Task: Material Procurement Schedule



3.1.7 Task A –Sub Task: Supervision and Monitoring Schedule



3.1.8 Task A Personnel Schedule



3.1.9 Sample of 9 PBS's Construction Work Plan for 2008 & 2009 will be verified in field with the Master Plan

Lateral No.	Total Line Km	Category wise consumers									Rev. Ratio	Priority No.	Union	Village
		Dom	Com	CI	STW	DTW	LLP	Rice Mill		SM				
								3-P	1-P	3-P				

Brahmanbaria PBS

**Thana-Kasba
From-0 to 1 Km**

D15/R1	0.2				4						2.67	1	Kaimpur	Kaimpur (E), Sripur (E)
E25/1	0.5	20			4						1.96	2	Gopinathpur	Fatehpur
E9/2/1	0.9	53			4						1.9	3	Kasba	Marapukurpar
D3	0.15				2						1.78	4	Kuti	Raniara (E)
A14/1	1	45			5						1.67	5	Binauti	Sayedabad
D10/3/1	0.5				6						1.6	6	Kasba	Aksina (E)
A P-2	0.5										1.56	8	Kuti	Baisar (E), Kailasnagar
C6	0.9	20			2		2				1.53	9	Mehari	Simrail

From-1 to 3 Km

C3/1/1	1.8	145			3						2.01	2	Kuti	Bhairabnagar (E)
D15L1/1	2.8	120			9		2				1.86	3	Kaimpur	Girishnagar, rajballabpur

From-3 to 5 Km

A8/2	3.05	140			11						1.54	3	Binauti	Khidirpur, Hajeepur
A14/3/1	3.6	200			7						1.49	4	Badoir	Badoir (E)

Above 5 Km

C10	15.3	997	60		17						1.75	1	Mehari	Simrail, Simrail Bazar
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Name of PBS: Brahmanbaria

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Bancharampur	4.83	3.30	0.00	22.58	30.71	7.68
Brahmanbaria	9.13	9.50	11.40	23.60	53.63	13.41
Kasba	4.65	4.60	6.65	15.30	31.20	7.80
Nabinagar	13.66	13.82	6.80	47.50	81.78	20.45
Nasirnagar	14.34	21.08	19.90	30.05	85.37	21.34
Total	46.61	52.30	44.75	139.03	282.69	70.67

Name of PBS: Faridpur

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Alfadanga	3.52	0.00	4.27	0.00	7.79	1.95
Boalmari	2.26	16.13	0.00	0.00	18.39	4.60
Modhukhali	14.57	0.00	0.00	0.00	14.57	3.64
Faridpur	17.02	3.33	0.00	0.00	20.35	5.09
Nagakanda	6.88	2.48	8.49	0.00	17.85	4.46
Char Bhadrashan	1.00	2.15	0.00	0.00	3.15	0.79
Sadarpur	8.80	2.93	0.00	0.00	11.73	2.93
Banga	1.58	7.90	0.00	0.00	9.48	2.37
Total	55.63	34.92	12.76	0.00	103.31	25.83

Name of PBS: Jhenaidah

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Shailkupa	2.01	0.00	0.00	14.05	16.06	4.02
Jhenaidah	2.32	9.35	7.10	0.00	18.77	4.69
Horinakunda	0.00	0.00	4.50	7.00	11.50	2.88
Kotchandpur	0.99	4.00	0.00	0.00	4.99	1.25
Kaligonj	1.00	4.53	5.00	9.50	20.03	5.01
Moheshpur	0.99	3.24	0.00	0.00	4.23	1.06
Total	7.31	21.12	16.60	30.55	75.58	18.90

Name of PBS: Magura

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Magura	12.26	13.32	5.00	7.25	37.83	9.46
Mohammadpur	7.08	7.70	5.00	12.32	32.10	8.03
Shalikhha	5.08	7.00	0.00	9.20	21.28	5.32
Sreepur	6.12	6.11	4.80	0.00	17.03	4.26
Total	30.54	34.13	14.80	28.77	108.24	27.06

Name of PBS: Mymensingh

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Bhaluka	11.55	6.85	14.45	20.00	52.85	13.21
Gaffargaon	9.95	10.40	7.86	13.20	41.41	10.35
Sreepur	7.90	10.70	13.90	11.80	44.30	11.08
Trishal	11.28	6.98	16.15	12.65	47.06	11.77
Total	40.68	34.93	52.36	57.65	185.62	46.41

Name of PBS: Nilphamari

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Dimla	19.58	18.73	16.65	28.90	83.85	20.96
Domar	15.47	19.51	30.33	18.60	83.90	20.98
Jaldhaka	15.92	19.58	24.27	28.43	88.19	22.05
Kishoreganj	15.44	7.69	12.76	12.75	48.65	12.16
Nilphamari	25.99	21.47	15.96	27.94	91.35	22.84
Total	92.40	86.97	99.96	116.61	395.94	98.98

Name of PBS: Rajshahi

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Tanore	8.13	6.05	7.45	5.50	27.13	6.78
Godagari	12.61	10.53	4.22	0.00	27.36	6.84
Paba	15.92	0.00	0.00	0.00	15.92	3.98
Mohanpur	2.73	13.00	9.00	10.25	34.98	8.74
Durgapur	9.72	1.76	7.20	14.00	32.68	8.17
Total	49.11	31.34	27.87	29.75	138.07	34.52

Name of PBS: Chapai Nawabganj

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Shibgonj	13.47	7.15	6.99	7.12	34.74	8.69
Volahat	5.18	2.85	0.00	0.00	8.03	2.01
Gomastapur	14.64	6.29	0.00	0.00	20.93	5.23
Nachol	11.33	4.11	3.50	0.00	18.94	4.73
Nababgonj	11.97	5.50	7.00	5.00	29.47	7.37
Total	56.59	25.90	17.49	12.12	112.11	28.03

Name of PBS: Kurigram

Name of Thana	Category wise line Km				Total Line Km	25% of total line
	0 to 1	1 to 3	3 to 5	Above 5		
Aditmari	13.23	23.30	24.70	24.80	86.03	21.51
Lalmonirhat	12.64	32.30	4.30	78.50	127.74	31.94
Nageswari	12.15	11.90	10.05	0.00	34.10	8.53
Bhurungamari	3.19	3.20	0.00	12.00	18.39	4.60
Kurigram	3.37	9.73	6.98	0.00	20.08	5.02
Rajarhat	6.11	12.60	0.00	0.00	18.71	4.68
Fulbari	4.00	4.00	6.70	0.00	14.70	3.68
Ulipur	3.75	1.00	0.00	0.00	4.75	1.19
Chilmari	3.08	2.80	3.90	16.02	25.80	6.45
Total	44.58	80.43	46.03	115.30	286.34	71.59

Note:- NRECA will check 422 Km line which is 25% of total 1688 Km.

3.2 Task B: Member Awareness/Education & Board Development (MA/E&BD) Programs

3.2.1 Principal Task Descriptions

- Enhance the scope for training design and the implementation in order to increase the understanding by both the PBS members about the PBS and improve the functional capacity of those serving as PBS Directors on the PBS Boards.

Member Awareness/Education (MAE) Activities

- Program Development
 - Modify curriculum materials if required based on feedback from ongoing implementation taking place at both at REB and the field.
- Program Implementation
 - Follow up with PBSs for Member Awareness/Education (MA/E) ongoing implementation and collection of data in collaboration with REB Training Directorate.
 - Conduct ME-Workshop beyond the initial Nine PBS Level (Regional/Cluster basis) through coordination with REB Training Directorate.
 - Plan and Conduct Annual Workshop for GMs and AGMs (MS) as means of reinforcing MA/E and the PBS/Cooperative Concept.

Board Development (BD) Activities

- Program Development
 - Finalize the the newly developed Handbook for PBS Board Development Orientation Training and print copies of implementation.
 - Print additional copies of the "Understanding Financial Report (Form 550)" manuals and work with the REB Training Directorate for ongoing implementation.
 - Revise and update an earlier version of "Performing the Job Effectively in the Board Room" curriculum.
 - Complete the revision, updating and reformatting of the curriculum materials for "Performance Appraisal and Board Development" program.
 - Initiate the revision of "Controlling - Measuring Results"
- Program Implementation
 - Support implementation of "crash" program by Training Directorate to get PBS Directors through the "Orientation" program using the newly developed "Handbook for PBS Directors".
 - Support the REB Training Directorate's plan for another "crash" program for implementing the "Orientation to RE Program" for the new PBS Directors who became members of their PBS Boards through the Director elections.
 - Support the REB Training Directorate for the delivery of the "Understanding Financial Report (Form 550)" three-day program.
 - As method for increasing the capabilities of PBS Directors in a timely fashion and in lieu of the regular programs in Dhaka, conduct one-day programs at field level using the cluster approach for the following:
 - Refresher program on Orientation to RE Program using PBS Director's Handbook.

- "Understanding Financial Report (Form 550)" using Form 550 Handbook for Directors
- o Work with the REB Training Directorate to initiate the delivery of PBS Director programs utilizing newly developed curriculum materials for the following programs:
 - "Performing the Job Effectively in the Board Room"
 - "Performance Appraisal and Board Development"
 - "Controlling-Measuring Result"
- Plan and conduct an Annual Workshop of PBS Board Presidents to address current issues impacting the RE Program.
- Coordinate with the REB Training Directorate to arrange the delivery of the necessary "Training of Trainers" programs to help ensure that the assigned Trainers for the PBS Board Programs are properly prepared to serve as effective Trainers.
- Identify along with the Training Directorate other MA/E&BD Programs that should be prepared for the following years

3.2.2 Member Awareness/Education and Board Development Team

The following personnel will be engaged in the REDP Member Education and Board Development Programs during March 2008 through February 2009.

James Ford/New COP - TBA	NRECA Country Director/COP	Part Time
Narayan Chandra Saha	NRECA Management Specialist	Full Time
Syed Nurul Islam	Consultant	Part Time

Note: In early 2008, Brigadier Malek discontinued his service with NRECA and this REDP Task to assume that as Special Assistant of Chief Advisor to Caretaker Government and was replaced by Mr. Syed Nurul Islam retired PBS General Manager.

3.2.3 Work Plan for Member Awareness/Education and Board Development (MAEBD)

ID	Task Name	Qtr 1, 2008	Qtr 2, 2008	Qtr 3, 2008	Qtr 4, 2008	Qtr 1, 2009	Qtr 2, 2009
1	MEMBER AWARENESS/EDUCATION (MA/E) ACTIVITIES	[Bar spanning Q1 2008 to Q1 2009]					
2	Program Development	[Bar spanning Q1 2008 to Q1 2009]					
3	Provided ongoing support to revisions and updating of MAE materials as required	◆ 3/1					
4	Program Implementation	[Bar spanning Q1 2008 to Q1 2009]					
5	Follow up with PBSS for Member Education (ME) ongoing implementation and collection of data	[Bar spanning Q1 2008 to Q1 2009]					
6	ME-Workshop beyond Nine PBS Level (Regional/Cluster basis)	[Bar from Q2 2008 to Q4 2008]					
7	Plan and Conduct Annual Workshop of GM and AGM (MS) for Reinforcing ME and Cooperative Concept	[Bar from Q4 2008 to Q1 2009]					
8	BOARD DEVELOPMENT (BD) ACTIVITIES	[Bar spanning Q1 2008 to Q1 2009]					
9	Program Development	[Bar spanning Q1 2008 to Q1 2009]					
10	Finalize and print Handbook for PBS Board Development Orientation Training	[Bar from Q1 2008 to Q2 2008]					
11	Print "Understanding Financial Report (Form 550)" Manuals for implementation	[Bar from Q3 2008 to Q3 2008]					
12	Revise and update "Performing the Job Effectively in the Board Room"	[Bar from Q2 2008 to Q3 2008]					
13	Complete revision and updating "Performance Appraisal and Board Development"	[Bar from Q3 2008 to Q4 2008]					
14	Initiate revision and reformatting of "Controlling - Measuring Results"	[Bar from Q4 2008 to Q1 2009]					
15	Program Implementation	[Bar spanning Q1 2008 to Q1 2009]					
16	Support implementation of "Orientation" crash program by Training Directorate	[Bar from Q1 2008 to Q4 2008]					
17	Support Refresher Orientation (one-day field) for Directors of 9-PBS cluster & others	[Bar from Q3 2008 to Q3 2008]					
18	Assist "Understanding Financial (550) Report" (one-day field) level of 9-PBS cluster	[Bar from Q4 2008 to Q4 2008]					
19	Assist REB Training with organizing Implementation of Understanding Financial (Form 550) Report	[Bar from Q4 2008 to Q1 2009]					
20	Assist with implementation of "Performing the Job Effectively in the Board Room"	[Bar from Q3 2008 to Q4 2008]					
21	Initiate implementation of "Performance Appraisal and Board Development"	[Bar from Q4 2008 to Q1 2009]					
22	Implement "Controlling - Measuring Results"	[Bar from Q1 2009 to Q1 2009]					
23	Plan and Conduct Annual Workshop of PBS Board Presidents	[Bar from Q4 2008 to Q4 2008]					
24	Consult with the REB Training Directorate to identify other MAE&BD Programs that should be prepared for the coming months	[Bar from Q1 2009 to Q1 2009]					

3.3 Task C Socio-Economic Impact Assessment

As has been presented in previously submitted REDP Quarterly Reports, a significant power shortfall in Bangladesh is considered likely to have a detrimental affect on the anticipated REDP benefits to newly connected consumers within the project timeframe. Due to the shortage of power and the decreased rate for providing new connections there has always been concern about the timing for when the baseline study is conducted. Also the ban on providing new connections to most rural consumers that was established by the Power Division in mid-2007 due to the shortage of power, further inhibits having the best conditions for establishing the baseline. With time delays between establishing the baseline and the beneficiaries getting a connection, other factors tend to impact the conditions in the village areas that are not resulting from the interventions coming from REDP. The lifting of the ban was anticipated to be after the main irrigation season was over and the demand stemming from the electric powered irrigation pumps would gradually be expected to be decreasing. The establishment of baseline measurements will be implemented at what is considered to be an appropriate time, with the timing of annual reviews and final measurements to be discussed and agreed to as the project continues forward.

Experienced NRECA socio economic staffs have indicated that undertaking a baseline study precipitately will likely have a negative affect on the veracity of the whole study. NRECA considers the socio economic baseline study should be realized at a time as close as possible to the electricity connections are made available to the beneficiaries and randomly-selected participants in the study. Also as noted in previous Workplans, construction works and electricity connections using the DFID funded materials would not be commencing until early 2008, the initial NRECA proposals to commission the socio economic baseline study earlier during 2006/2007 have been reconsidered and most now feel the timing is more appropriate.

NRECA completed the selection process for acquiring an experienced local consultant in July 2007. This process was handled by an 'evaluation committee' that was comprised of representatives from REB, DFID, and NRECA. The selected firm was Human Development Research Center (HDRC), the firm which completed the major impact assessment in 2002. Final negotiations with HDRC took place after their selection and the process for completing the formal contracting between NRECA and HDRC then proceeded per NRECA and USAID requirements. This contracting process was nearing completion as of the beginning of this project year.

3.3.1 Socio Economic Impact Assessment Personnel

The following personnel will be engaged in the REDP socio economic impact assessment Task during March 2008 through February 2009.

James Ford/New COP - TBA	NRECA Country Director/COP	Part Time
Shital Krishna Das	Local Socio Economic Consultant	Part Time
Eric Gibbs	Expatriate Socio Economic Consultant	Part Time

(Note: Mr. Tawheed Reza Noor who was serving as the Socio-Economic consultant with NRECA is no longer with the REDP as he took a decision to avail an opportunity to pursue a doctorate program at a well known university in New Delhi, India thus an experienced replacement has been named as he replacement.)

3.3.2 Socio Economic Impact Assessment Baseline Study Preparation

Although NRECA proposes to commence the actual collection of baseline data at the time when electricity supplies are made available and the ban on providing rural connections to most domestic consumers has been lifted, some preparation work was necessary during the intervening period. During this time the contracting process for securing the services of HDRC local consultant and work with them to prepare a sampling plan and the necessary questionnaires.

3.3.3 Socio-Economic Impact Study

For the socio-economic impact study of REDP, the focus for project year #3 will be in three areas: 1) Finalizing the contracting arrangements between NRECA and Human Development Research Centre (HDRC) as per NRECA internal requirements as well as USAID Contracts Office; 2) Monitoring the completion of the baseline survey and Study by HDRC; and 3) monitoring the completion of an 'annual review' of the progress of the program in terms of its objective on prompting socio-economic impacts on targeted groups of beneficiaries.

Final Contracting With Selected Firm (HDRC)

- Assist in developing the agreement required for contracting the services of HDRC per the requirements from NRECA/Arlington and Contracts Office in USAID/Dhaka.

Conduct Baseline Study

The work associated with this particular subtask will include monitoring the work of HDRC on behalf of all stakeholders (DFID, USAID, REB and PBSs) and providing the necessary oversight and input related to the following:

- a. Reconfirmation the intended objectives and identify important unintended or broader impacts of the Rural Electrification Development Program in Bangladesh concluding with consensus by the major stakeholders. In connection to finalizing consensus HDRC will review project documents, conduct interviews with appropriate REB personnel, DFID, USAID, and local representatives of NRECA in order to reconfirm the objectives of the REDP and also to reconfirm that it is supportive of the objectives of the overall Rural Electrification Program in Bangladesh.
- b. Definition of define variables and indicators based on the conclusions and consensus in sub-task "a", and identification of a small set of key testable hypotheses linking MDGs and PRSP, and RE and REDP interventions to the explicit and implicit goals established. A joint meeting between REDP partners (REB, DFID, USAID and NRECA) will be convened in order to obtain consensus on these issues.
- c. Preparation and submission of recommendations related to the optimum representation of the "universe" based on an appropriate frame, statistical sampling methods and procedures that can validate the study findings on the economic and social impact of the REDP.

A written document containing a joint and acceptable methodology including objectives, hypothesis, variables, indicators, list of data collection instruments (tools), etc. of the baseline study will be presented to all the stakeholders in order to set the basis for

determining the elements of the Baseline Study that will be required to support this Socio-economic Impact Study of the REDP.

- d. Preparation of required data collection tools (questionnaires, etc.) including field test of data collection. Input to be provided as and when required.
- e. Development of system for data collection including provisions for quality control, training of enumerators, etc.
- f. Completion of field work related to data collection including quality control mechanisms that will help ensure the validity of the data collected.
- g. Preparation of customized software for developing database and for use in data analysis.
- h. Completion of data input and building of database from fieldwork.
- i. Analysis of data in light of defined intent of baseline survey and study.
- j. Preparation of a "draft" Baseline Report that is to be reviewed by REDP partners that will explain the baseline situation of the REDP and establish the basis for the post study.
- k. Dissemination of relevant information regarding the final Baseline Report through a presentation containing highlights of the findings to the REDP stakeholders and in a brief report to be made available to the stakeholders.

Conduct of Annual Review of REDP from Socio-Economic Perspective

For accelerating the growth, the project management within DFID is required to take the corrective actions, during implementation of the project, if necessary. Therefore, follow up interim surveys will be required to understand whether the project implementation process is on the track toward reaching the optimum intended objectives in the scheduled time-frame or, is moving slower than expectation or, if it has deviated. The purpose of the interim surveys is to identify both negative and positive factors, as well as any missing elements which could influence both the implementation and impact of the project. Corrective actions may be required to resolve the negative and retarding factors, and to enhance the existing positive factors. This will include information related to the PKSF microfinancing component as well.

For this particular sub-task, the work will include monitoring the work of HDRC on behalf of all stakeholders (DFID, USAID, REB and PBSs) and providing the necessary oversight and input related to the following:

- a. Review and input to the data collection instruments; the main purpose of this task will be to crosscheck if the data collection instruments are appropriate to capture progress of the project in terms of whether the present implementation strategy will meet the established project objectives as reconfirmed during the work related to baseline.
- b. Assessment of the progress of the project as per item a above.
- c. Presentation of the findings is of the interim review with participation of the related officials of REB, PBS, PKSF and its participating NGOs, DFID, USAID and NRECA.

3.3.4 Socio Economic Impact Survey Schedule March 2008 to February 2009

