

Semi-annual Social Monitoring Report

Project No. 42378-015
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**Power System Expansion and Efficiency Improvement
Investment Program - Tranche 1
Part B -132 kV Grid Network Development Project in Eastern
Region**

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Social Safeguard Monitoring Report (Final)

Reporting Period: July' 2019 to December' 2019

**BAN: Power System Expansion and
Efficiency Improvement Investment
Program- Tranche 1
Loan No: 2966- BAN**

(132 kV Grid Network Development Project in Eastern Region)

Prepared by the Power Grid Company of Bangladesh Ltd. for the Asian Development Bank

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EXECUTIVE SUMMARY

Power Grid Company of Bangladesh Ltd. (PGCB) is executing this project (132 kV GNDP in Eastern Region under Loan 2966-BAN: Power System Expansion and Efficiency Improvement Investment Program – Tranche 1) with Foreign Exchange of 86 million USD being financed by Asian Development Bank (ADB) and local currency being financed from Government of Bangladesh (GOB) & PGCB funds. A loan agreement was signed between ADB and GOB in this regard on 30 April, 2013. The project includes construction and renovation of 10 nos. of 132/33 kV grid substations and construction of around 293 km 132 kV double circuit transmission lines in different areas of eastern region of the country to improve the power supply reliability. The project is divided into two lots, Lot-1 for transmission lines and Lot-2 for substations. Power Grid Company of Bangladesh Limited (PGCB) as executing agency (EA) of the project has signed two turnkey contracts with Cobra Instalaciones Y Servicios S.A. and ABB India Limited for Lot-1 and Lot-2 respectively.

1. INTRODUCTION

1.1 Project Description

The demand of Electricity is growing up regularly throughout the country. In consistence with this higher demand fo power, gas based new power plants need to be installed. But it will not be possible to transmit the power output from the existing and the future power plants. Unless and until the sufficient transmission facilities are build-up. Consequently, Power Grid company of Bangladesh Limited (PGCB) intends to construct arround 300 km 132 kV Transmission Lines at Chandrahgona-Rangamati-Khagrachari with two new 132/33 kV sub-stations (Rangamati & Khagrachari) and one extension Sub-Station (Chandrahgona), Tangail-Ghatail-Mymensingh 132 kV Transmission Line with two extension 132/33 kV sub-Stations (Tangail & Mymensingh RPCL), Brahmanbaria-Nabinagar-Narsingdi 132 kV Transmission Line with two extension 132/33 kV sub-Stations (Brahmanbaria, Narsingdi), Sylhet-Fenchuganj T-off to Beanibazar & Chhatak-Sunamgonj 132 kV Transmission Line with two new Sub-Stations (Beanibazar & Sunamgonj) and one extension Sub-Station (Chhatak).

ADB is helping Bangladesh boost its power supply to reduce the outages and shortages that are crippling the economy.

PGCB is the implementing agency for 132 kV Grid Network Development Project in Eastern Region under the Ministry of Power, Energy and Mineral Resources.

1.2 Scope of the project

Name of the projects	Length / Nos. of new Sub-Station	Land Acquisition
Construction of Chandrahgona-Rangamati-Khagrachari 132 kV double circuit Transmission Line.	80.02 Km.	----
5 nos. 132 kV Bay Extension at Chandrahgona Sub-Station.	Modification.	
Construction of 132/33 kV, 2x25/41 MVA Sub-Station at Rangamati.	1 No.	5.35 Acre.
Construction of 132/33 kV, 7x10/13 MVA Sub-Station at Khagrachari.	1 No.	6.10 Acre.
Construction of Tangail-Ghatail--Mymensingh 132 kV double circuit Transmission Line.	93.45 km	----
2 nos. 132 kV Bay Extension and Installation of 1 no. 132/33 kV, 50/75 MVA Transformer at Tangail Sub-Station.	Extension/Renovation	
2 nos. 132 kV Bay Extension at Mymensingh RPCL Sub-Station.	Extension/Renovation	
Construction of Brahmanbaria- Narsingdi 132 kV double circuit Transmission Line and Haripur/Bhulta-Ghorashal LILO to Narshingdi Substation.	57.23 km	----

6 nos. 132 kV Bay Extension and Installation of 1 no. 132/33 kV, 50/75 MVA Transformer at Narsingdi Sub-Station.	Extension/Renovation	
2 nos. 132 kV Bay Extension at Brahmanbaria Sub-Station.	Extension/Renovation	
Construction of 132kV Sylhet-Fenchuganj line T-off to Beanibazar & Chhatak-Sunamgonj 132 kV double circuit Transmission Line.	62.44 km	-----
1 no. 132 kV Bay Extension at Chhatak Sub-Station.	Extension/Renovation	
Construction of 132/33 kV, 7x10/13 MVA Sub-Station at Sunamgonj.	1 No.	5.25 Acre.
Construction of 132/33 kV, 2x50/75 MVA Sub-Station at Beanibazar.	1 No.	5.33 Acre.

1.3 The objectives of the Project

- To increase the power supply reliability of Mymensingh area.
- To reduce dependency on Ashuganj-Kishorganj 132kV line.
- To evacuate the Power from the upcoming Power Plant in Mymensingh area.
- To meet the growing demand of Rangamati, Khagrachari, Beanibazar & Sunamgonj.
- To supply reliable power to Hill Tract area.
- To minimize the accumulation of huge power at Ashuganj 132 kV bus bar.
- To minimize the overloading of existing “Ashuganj-Ghorasal 132 KV transmission line”.
- To strengthen the power evacuation arrangement & increase power supply stability, reliability & transmission capability in Ashuganj & Ghorasal area.

The project includes construction and renovation of 10 nos of 132/33 kV grid substation and construction of around 293.15 km 132 kV double circuit transmission lines in different areas of eastern region of the country to improve the power supply reliability.

The foreign exchange component of the project cost are being financed from ADB’s Power System Expansion and Efficiency Improvement Investment Program (Trance 1) Loan no. 2966-BAN, signed between ADB and Government of Bangladesh (GOB) under Subsidiary Loan Agreement (SLA) with PGCB, whereas the local currency expenses are being financed by GOB and PGCB.

The details of the said project are given in Table-1.1 Initial and revised estimated costs of the Project are given in Table-1.2.

Table 1-1: Project at a Glance

Project Title :	132 kV Grid Network Development Project in Eastern Region
Ministry/Division :	Ministry of Power, Energy and Mineral Resources/Power
Executing Agency :	Power Grid Company of Bangladesh Limited (PGCB)
Location of the Project :	District: Brahmanbaria, Narsingdi, Rangamati, Khagrachari, Mymensingh, Tangail, Sunamgonj, Sylhet.

Table 1-2: Estimated Cost of the project in BDT Million [USD @ Taka 79.70 & INR @ 1.22]

As per	Total	DPA	GOB	PGCB
Original DPP	9,868.40	6,932.30 (85 m USD)	1,771.33	1,164.80
Revised DPP	9,825.66	6,808.77 (85 m USD)	1,744.28	1,272.61

Tenders were invited for the implementation of the project by dividing it into two lots: Lot-1 for transmission lines and Lot-2 for substations. After systematic and successful tendering processes two turnkey contracts were signed with the approval of ADB as follows:

- i) Turnkey contract for “Design, Supply, Erection, Testing and Commissioning of 132 kV Transmission Lines and Substations on Turnkey Basis Lot-1: Transmission Lines (PSEEIP/ADB/PGCB/TL)” has been signed between PGCB and Cobra Instalaciones Y Servicios SA on September 15, 2014.
- ii) Turnkey contract for “Design, Supply, Erection, Testing and Commissioning of 132 kV Transmission Lines and Substations on Turnkey Basis Lot-2: Substations (PSEEIP/ADB/PGCB/SS)” has signed between PGCB and ABB India Limited on September 18, 2014.

1.4 Project Progress Status and Implementation Schedule

1.4.1 Lot-1: Transmission Lines

General Information:

Contract No: PSEEIP/ADB/PGCB/TL

Design, Supply, Erection, Testing and Commissioning of 132 kV Transmission Lines and Substation on Turnkey Basis Lot-1: Transmission Lines.

Lot-1 includes construction of nearly 293.15 km of 132 kV Transmission Lines in different location in Bangladesh, which is divided into 4 (four) sections:

- Section A: Chandraghona-Rangamati-Khagrachari
- Section B: Mymensingh-Tangail
- Section C: Brahmanbaria-Narsingdi
- Section D: Chatak-Sunamganj, Sylhet-Fenchuganj T-off to Beanibazar

Implementation Schedule:

The turnkey contract for LOT-1: Transmission Lines completion date is 08.08.2017, 900 (Nine Hundred) days from the contract effective date of 20.02.2015.

Present Status:

Contract Signed on 15.09.2015 between PGCB and Cobra Instalaciones y Servicios S.A. 10% advance payment of FC was paid on 24.11.2014. Letter of Credit (LC) was opened on 01.01.2015. Contract was made effective from 20.02.2015. According to the condition of the contract, contract will be effective after opening of L/C & accepted by the contractor, although the direct payment of advance was made much earlier to the contractor. The project completion date is 08.08.2017 which is 900 days from the effective date of contract.

Contract Price	USD 33,276,661.00 + BDT 1,369,302.162.00
Revised Contract Price	USD 45,072,196.03 + BDT 954,173.552.58

Table 1.3: Implementation Status: Transmission Line (Lot-1)

Section	Name of 132kV Transmission Line	Length	Present Status
Sec - A	Chandraghona-Rangamati-Khagrachari Line	80.02 km	Commercially running since 04/04/2018.
Sec - B	Tangail-Mymensingh (RPCL) Line	93.45 km	Commercially running since since 09/06/2017
Sec - C	Brahmanbaria-Narsingdi 132kV double circuit Transmission Line and Haripur/Bhulta-Ghorashal LILO to Narshingdi	57.23 km	Commercially running since 01/10/2018 & 20/10/2018.
Sec - D	Chattak-Sunamganj 132 kV double circuit Transmission Line	32.04 km	Commercially running since 03/05/2018.
	Sylhet-Fenchuganj line T-off to Beanibazar 132 kV double circuit Transmission Line.	30.39 km	Commercially running since 12/06/2018.
Total Line Length		293.15 km	

1.4.2 Resettlement for Transmission Line:

As per Electricity Act 1910 and Telegraph Act 1885, permanent land acquisition will not be required for the transmission line. No permanent structure will be affected as the selected route of the transmission line runs basically through crops field and low land area, Compensation will have to be paid to the landowners as per provision to meet their losses of crops and trees as per govt. rate.

SL	Transmission Line	Length (km)	Estimated Number of Households	Number of Households Affected by TL	Number of Households Affected by Substations	Compensated to the landowners for losses of crops & trees (Person)
1	Chandraghona-Rangamati-Khagrachari Line	80.02	0	0	0	1361
2	Tangail-Mymensingh Line	93.45	0	0	0	1388
3	Brahmanbaria-Narsingdhi Line	57.23	0	0	0	1236
4	Chattak-Sunamganj & Sylhet-Beanibazar Line	62.45	0	0	0	1253

1.4.3 Lot-2: Substations

General Information:

Contract No: PSEEIP/ADB/PGCB/SS

Design, Supply, Erection, Testing and Commissioning of 132 kV Transmission Lines and Substation on Turnkey Basis Lot-2: Substations.

Lot-2 includes construction of 4 new 132/33 kV Substations in Rangamati, Khagrachari, Beanibazar and Sunamganj and renovation of 6 existing 132/33 kV Substations in Chandraghona, Brahmanbaria, Narsingdi, Tangail, Mymensingh and Chattak.

Implementation Schedule:

The turnkey contract for LOT-2: Substations completion date is 08.08.2017, 900 (Nine Hundred) days from the contract effective date 20.02.2015.

Table 1.4: Implementation Status: Substation (Lot-2)

New Substations construction	Present status (Commercially running since)	Extension / Renovation	Present status (Commercially running since)
Rangamati	27/12/18	Chandraghona	19/03/18
Khagrachari	13/04/18	Narsingdhi	09/03/18
Beanibazar	12/06/18	Brahmanbaria	02/02/18
Sunamganj	03/05/18	Mymensingh (RPCL)	09/06/17
Tangail	08/06/17	Chattak	03/11/17

Land Acquisition / Development:

The total land acquired for substation construction is given in the table below :

Table 1-5: Acquired land area:

Sl. No	Name of the Substation	Total Land (In Acre)	Remarks
1	Beanibazar 132/33 kV Substation	5.33	
2	Sunamganj 132/33 kV Substation	5.25	0.1591 acre land is purchased directly from land owner.
3	Rangamati 132/33 kV Substation	5.35	
4	Khagrachori 132/33 kV Substation	6.10	

Compensation for land acquisition was paid to PAP through DC office. All lands have been handed over to the executing agency "PGCB".

1.4.4 Resettlement for Substations:

As the selected locations for substations were basically infertile land hence no resettlement was required. However, compensations have been paid to the landowners as per provision of the existing government rules and law and ADB policy. To meet the losses of crops, trees or any other valuables on the land, compensation were provided according to the rates of Government Authorities (e.g. Forest Dept, PWD, BADC, RHD etc.) for transmission line construction. For land acquisition, compensations were provided to the affected people through DC offices. The land value was assessed by the related DC office with the provision of statutory rules, no other NGO and consultant involved in the assessment.

SL	132/33kV Substations	Total Land (In Acre)	Number of Households Affected		Total
			by Trans. Line	by Substations	
1	Beanibazar	5.33	0	28	28
2	Sunamganj	5.25	0	14	14
3	Rangamati	5.35	0	15	15
4	Khagrachori	6.10	0	26	26

2. COMPLIANCE TO NATIONAL REGULATIONS

2.1 Safeguards Monitoring Results and Unanticipated Impacts

The internal monitoring was carried out by the project office in order to oversee the performance of the resettlement plan implementation. Following are the indicators based on which the overall monitoring was carried out:

Table 2-1: Monitoring Indicators

Sl. #	Monitoring Aspects	Potential/Relevant Indicators
1.	Delivery of Entitlements	Entitlements disbursed as per the entitlement matrix. Disbursements against timelines. Identification of the displaced persons. Timely disbursements of the agreed transport costs, relocation costs, income substitution support, and any resettlement allowances, according to schedule. Provision of replacement land plots. Quality of new plots and issue of land titles. Restoration of social infrastructure and services. Progress on income and livelihood restoration activities being implemented as set out in the income restoration plan, for example, utilizing replacement land, commencement of production, the number of the displaced persons trained in employment with jobs, microcredit disbursed, number of income-generating activities assisted. Affected businesses receiving entitlements, including transfer and payments for net losses resulting from lost business.
2	Consultation & Grievances	Consultations organized as scheduled including meetings, groups, and community activities, Knowledge of entitlements by the displaced persons. Uses of the grievance redress mechanism by the displaced persons. Information on the resolution of the grievances. Information on the implementation of the social preparation phase. Implementation of special measures for Indigenous Peoples.

3	Communications & Participation	<p>The transmission line is about 293.15 km. There are more than one thousand locations of towers. So far several meetings has been conducted with the local people both men and woman.</p> <p>Number of general meetings (for both men and women). Percentage of women out of total participants. Number of meetings exclusively with women. Number of meetings exclusively with vulnerable groups. Number of meetings at new sites. Number of meetings between hosts and the displaced persons. Level of participation in meetings (of women, Men, and vulnerable groups). Level of information communicated – adequate or inadequate. Information disclosure. Translation of information disclosure in the local languages.</p>
4.	Budget & Timeframe	<p>Land acquisition and resettlement staff appointed and mobilized on schedule for the field and office work.</p> <p>Achieving resettlement implementation activities against the agreed implementation plan. Funds allocation for resettlement to resettlement agencies on time. Receipt of scheduled funds by resettlement offices. Funds disbursement according to the resettlement plan. Social preparation phase as per schedule. Land acquisition and occupation in time for implementation</p>
5.	Livelihood & Income Restoration	<p>No ILRP training was provided.</p> <p>Number of displaced persons under the rehabilitation programs (women, men, and vulnerable groups). Number of displaced persons who received vocational training (women, men, and vulnerable groups). Types of training and number of participants in each. Number and percentage of displaced persons covered under livelihood programs (women, men, and vulnerable groups). Number of displaced persons who have restored their income and livelihood patterns (women, men, and vulnerable groups). Number of new employment activities. Extent of participation in rehabilitation programs. Extent of participation in vocational training programs. Degree of satisfaction with support received for livelihood programs. Percentage of successful enterprises breaking even (women, men, and vulnerable groups). Percentage of displaced persons who improved their income (women, men, and vulnerable groups). Percentage of displaced persons who improved their standard of living (women, men, and vulnerable groups). Number of displaced persons with replacement agriculture land (women, men, and vulnerable groups). Quantity of land owned/ contracted by displaced persons (women, men and vulnerable groups). Number of households with agriculture equipment. Number of households with livestock.</p>
6.	Benefit Monitoring	<p>Noticeable changes in patterns of occupation, production, and resource use compared to the pre-project situation. Noticeable changes in income and expenditure patterns compared to the pre project situation. Changes in cost of living compared to the pre project situation. Changes in key social and cultural parameters relating to living standards. Changes occurred for vulnerable groups. Benefiting from the project by the displaced persons.</p>

2.2 Implementation of Grievance Redress Mechanism and Stakeholders' Complaints

About 22 Acres of land were acquired for substations and care is taken while selecting lands for substations and all selected lands are basically infertile and far from densely populated area. Prior consents from the land owners has taken before selecting the land for acquisition. Land acquisition for substations was completed and guided by Draft National Involuntary Resettlement Policy 2010, LAR Ordinance Amended in 1994 and Safeguard Policy Statement 2009. Compensation was paid to the land owners, affected on acquisition, by Account payee Cheque in presence of the local Member of Parliament, local representatives and local Government Officers.

Permanent Land acquisition is not required for the TL (Transmission line) as per Electricity Act 1910 and Telegraph Act 1885, but due Compensation were paid to the land owners to meet their losses of crops and trees. No permanent structure has been affected as TL passed through open field and agricultural land.

So far, no complaints were received in PGCB. The substations and adjacent transmission lines are commercially operated by Grid maintenance divisions (GMD) of PGCB. If any complaint is received, it would be handled through respective GMD.

3. Conclusion and Recommendations

The objective and tools of monitoring and measuring the progress of operation of the line & substation of the EMP is basically to fulfill the safeguard requirements of ADB as well as that of DOE. Thus continuous updating of EMMP is required for unanticipated impacts standing currently apparent if any. PGCB is well aware to follow Environmental and Occupational Health & Safety (EOHS) issues.

- Due safety training and awareness program were carried particularly on Fire Hazards & EOHS.
- EMMP is a dynamic mechanism and hence the provisions contained in the available tools like operational EMP of EIA doc requires revisited from time to time if required.

The installed Transmission Lines (293 km) & 10 nos. of Substations have been running commercially since their commissioning dates without any noticeable difficulties. Now the Installations are operated by different Grid Maintenance Divisions of PGCB.