



Environmental Monitoring Report

Project Number: 41614-036
April 2017

Period: July 2016 – December 2016

IND: Assam Power Sector Enhancement Investment Program - Tranche 4

Submitted by
Assam Power Distribution Company Limited, Guwahati

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No. ASEB/PMU/T-I/235/2014/Pt-I/127

Date: 28-02-2017

To,

Country Director

Indian Resident Mission, ADB

4 San Martin Marg, Chanakyapuri,

New Delhi -110021



Subject: Submission of Biannual Environmental Safeguard Monitoring Report (July – December, 2016) and Re-submission of Biannual Environmental Safeguard Monitoring Report (July – December, 2015) under Loan No. 3200 – IND(Tranche -4).

Sir,

Please find enclosed herewith the Biannual Environmental Safeguard Monitoring Report (July – December 2016) and re-submission of Biannual Environmental Safeguard Monitoring Report (July – December, 2015) under Loan No. 3200 – IND (Tranche -4) for your needful action from your end.

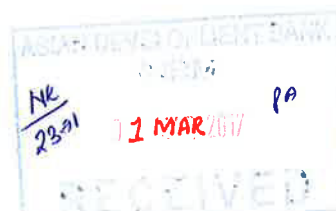
Thanking you

Yours faithfully,

Manoj K. Jha 26/02/17

Director,

PMU/APDCL



Sept copy sent 1.02.17



Assam Power Sector Enhancement Investment Program

**Tranche – 4
(Loan No.: 3200-IND)**

Bi-Annual

Environmental Safeguard Monitoring Report

(July - December, 2016)

February, 2017

**Prepared by the Assam Power Distribution Company Limited for the Asian
Development Bank**

This environmental safeguard monitoring report is a document of the borrower and made publicly available in accordance with ADB's Public Communications Policy 2011 and the Safeguard Policy Statement 2009. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff.

Abbreviation

ADB	Asian Development Bank
AEGCL	Assam Electricity Grid Corporation Ltd.
AP	Affected People
APSEIP	Assam Power Sector Enhancement Investment Program
ASEB	Assam State Electricity Board
D.C.	District Collector
EA	Executing Agency
ESMU	Environmental and Social Management Unit
GHG	Green House Gas
GOA	Government Of Assam
GOI	Government Of India
GRC	Grievance Redress Mechanism
IA	Implementing Agency
IEE	Initial Environmental Examination
Ltd.	Limited
LAA	Land Acquisition Act
LAO	Land Acquisition Officer
MFF	Multi-Tranche Financing Facility
PAP	Project Affected Persons
PMU	Project Management Unit
ROW	Right of Way
RF	Resettlement Framework
RP	Resettlement Plan
RPD	Resettlement Planning Document
S/S	Sub Station
SEIA	Summary Environmental Impact Assessment
SIEE	Summary Initial Environmental Examination
SRPD	Short Resettlement Planning Document
T&D	Transmission and Distribution
T/L	Transmission Line
T & T	Transmission and Transformation

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A. PROJECT INFORMATION

A-1: General

i.	Name of Project	Assam Power Sector Enhancement Investment Program
ii.	Loan Number	3200-IND
iii.	Name of Monitoring/Reporting Agency and address	Director, Project Management Unit (PMU) Assam Power Distribution Company Limited (APDCL), 4 th Floor, Bijulee Bhawan, Guwahati, 781001, Assam
iv.	Monitoring Period (Season/month)	July to December, 2016
v.	Report No.	04
vi.	Report for the period	July to December, 2016
vii.	Date of reporting	February, 2017
viii.	Type of Contract	Multi-Tranche Financing Facility (MFF)

A-2: Subproject Details

S.No.	List of sub-projects	Name of the PIU(Annexure 1)
Package-1: Construction of New 33/11kV Sub-Stations, 33kV & 11kV Lines, 33kV Terminal Equipment and 33kV & 11kV Railway/River Crossings(Annexure 4)		
Lot 1	i. 7 Nos. New 2X5 MVA, 33/11kV Substations; ii. New 33kV Lines (108.35km) ¹ ; iii. New 11kV Lines (62km); iv. 1 no. Railway track crossing in the 33kV Line; v. 3 Nos. Railway track crossing in the 11kV Line;	Tinsukia Electrical Circle
Lot 2²	i. 2 Nos. New 2X5 MVA, 33/11kV Substations; ii. 15 km 33kV Line on GI STP with AAAC Wolf conductor form Namrup substation and 10km from Tingkhong substation to Kaliapani substation with terminal equipment at Namrup substation & Tingkhong substation. iii. New 11kV Lines (22km);	Dibrugarh Electrical Circle
	i. 2 Nos. New 2X5 MVA, 33/11kV Substations; ii. New 33kV LILO Lines (18km); iii. New 11kV Lines (35.1km); iv. 1 no. Railway track crossing in the 33kV Line; v. 3 Nos. Railway track crossing in the 11kV Line;	Sivasagar Electrical Circle

¹ The line length for 33kV & 11kV lines for Lot 1 is subject to change due to changes in Chabua substation location.

² The line length for 33kV & 11kV lines for Lot 2 is subject to change due to changes in substation location (Gharamara [Kaliapani], Radhabari [Rangagorah] and Namsung [Podumoni]).

S.No.	List of sub-projects	Name of the PIU(Annexure 1)
	<div><div>i. 3 Nos. New 2X5 MVA, 33/11kV Substations;</div><div>ii. New 33kV Lines with terminal equipment (76km);</div><div>iii. New 11kV Lines (76km);</div><div>iv. 1 no. Railway track crossing in the 33kV Line;</div><div>v. 1 no. River crossing in the 33kV Line.</div><div>vi. 4 Nos. Railway track crossing in the 11kV Line;</div></div>	Golaghat Electrical Circle
Lot 3	<div><div>i. 6 Nos. New 2X5 MVA, 33/11kV Substations;</div><div>ii. New 33kV LILO Lines (20km)</div><div>iii. New 33kV Lines with terminal equipment (131km)</div><div>iv. New 11kV Lines (125km)</div></div>	Tezpur Electrical Circle
	1 No., 33kV strengthening of River crossing span at Ghola river in between 33kV line from Rowta-Kasubil with rail pole.	Mangaldoi Electrical Circle
Package 2: Augmentation and R&M of 33/11kV Substations, Construction of 33kV & 11kV Lines and Construction of 11kV ABC Lines(Annexure 5)		
A - 33kV Lines for system strengthening		
i.	New Lines at Dibrugarh Electrical circle (45km S/C).	Dibrugarh
ii.	New Lines at Tezpur Electrical circle (20km S/C).	Tezpur
iii.	New Lines at Mangaldoi Electrical circle (0.4km) and Upgrade Lines (33.4km).	Mangaldoi
B - 11kV Lines for system strengthening		
i.	3 Nos. New Lines at Dibrugarh Electrical circle	Dibrugarh
ii.	4 Nos. New Lines at Sivasagar Electrical circle	Sivasagar
iii.	9 Nos. New Lines at Golaghat at Electrical circle	Golaghat
iv.	5 Nos. New Lines at Tinsukia Electrical circle	Tinsukia
v.	10 Nos. New Lines at Jorhat Electrical circle	Jorhat
vi.	3 Nos. New Lines at Tezpur Electrical circle	Tezpur
vii.	4 Nos. New Lines at Bongaigaon Electrical circle	Bongaigaon
viii.	3 Nos. New Lines at Barpeta Electrical circle	Barpeta
C - Substation Augmentation		
i.	Augmentation of existing 2X2.5 MVA Transformer to 2X5 MVA Transformer at 33/11kV Galeky substation in Sivasagar electrical circle.	Sivasagar
ii.	Augmentation of existing 1X2.5 MVA + 1X1.6MVA Transformer to 1X2.5 MVA +1X5 MVA Transformer at 33/11kV Namti substation in Sibsagar electrical circle.	Sivasagar
iii.	Augmentation of existing 1X2.5 MVA + 1X5 MVA Transformer to 2X5 MVA Transformer with provision of Terminal equipment for Namrup-Rajgarh Line at 33/11kV Rajgarh substation Dibrugarh	Dibrugarh

S.No.	List of sub-projects	Name of the PIU(Annexure 1)
	electrical circle.	
iv.	Augmentation of existing 2X3.15 MVA Transformer to 2X5 MVA Transformer at 33/11kV Jamuguri substation in Tezpur electrical circle.	Tezpur
v.	Augmentation of existing 1X2.5 MVA Transformer to 2X5 MVA Transformer at 33/11kV Chilapathar substation in Lakhimpur electrical circle.	Lakhimpur
vi.	Augmentation of existing 2X2.5 MVA Transformer to 2X5 MVA Transformer at 33/11kV Kamalpur substation in Rangia electrical circle.	Rangia
D - 11kV Arial Bunched Cables (ABC)		
i.	2 Nos. New 10km ABC Lines at Sivasagar electrical circle.	Sivasagar
ii.	3Nos. New16km ABC Lines at Golaghat electrical circle.	Golaghat
iii.	New 4.95km ABC Lines at Guwahati electrical circle-I.	GEC 1
E - Meter Testing Laboratory-JorhatElectrical Circle		
i.	Supply and setting up of an independent Energy Meter Testing Laboratory with a semi- automatic 10 position meter test bench at Jorhat engineering college.	Jorhat
F - R&M works of 33/11kV Substations		
A. Civil Works		
i.	2 Nos. Substations at Dibrugarh electrical circle.	Dibrugarh
ii.	7 Nos. Substations at Tinsukia electrical circle.	Tinsukia
iii.	4Nos. Substations at Sivasagar electrical circle.	Sivasagar
iv.	5 Nos. Substations at Kokrajhar electrical circle	Kokrajhar
v.	3 Nos. Substations at Bongaigaon electrical circle	Bongaigaon
vi.	4 Nos. Substations at Guwahati electrical circle	Guwahati
vii.	3 Nos. Substations at Tezpur electrical circle	Tezpur
viii.	2 Nos. Substations at Lakhimpur electrical circle	Lakhimpur
ix.	6 Nos. Substations at Cachar electrical circle	Cachar
x.	2 Nos. Substations at Jorhat electrical circle	Jorhat
B. Electrical Works		
xi.	3 Nos. Substations at Nagaon electrical circle.	Nagaon
xii.	1No. Substations at Cachar electrical circle.	Cachar
xiii.	2 Nos. Substations at Mangoldoi electrical circle.	Mangaldoi
xiv.	1 Nos. Substations at Morigaon electrical circle.	Morigaon
xv.	6 Nos. Substations at Tinsukia electrical circle.	Tinsukia
xvi.	5 Nos. Substations at Sivasagar electrical circle	Sivasagar
xvii.	2 Nos. Substations at Sivasagar electrical circle	Dibrugarh

S.No.	List of sub-projects	Name of the PIU(Annexure 1)
G - R&M works of 33kV Lines		
i.	33kV S/C Lines for LTPS-Sonari Line for Napuk substation- PSC Pole, AAA Wolf Conductor, Span 40 M	Sivasagar
ii.	33kV S/C Lines for NTPS-Salkatoni Line for Borhat substation- PSC Pole, AAA Wolf Conductor, Span 40 M	Sivasagar
Package 3: Mobile Testing Vehicles for T&C Divisions & Mobile Maintenance Vehicles for Sub-Divisions in Assam and Mobile Trailer Mounted 33/11kV Substations for Emergency Restoration of Distribution system		
Lot 1	A. Mobile Testing Vehicles for T&C Divisions: <ol style="list-style-type: none"> 5 Nos. in Upper Assam Zone 5 Nos. in Central Assam Zone 8 Nos. in Lower Assam Zone B. Mobile Maintenance Vehicle for Sub-Divisions: <ol style="list-style-type: none"> 5 Nos. in Upper Assam Zone 2 Nos. in Central Assam Zone 13 Nos. in Lower Assam Zone 	
Lot 2	C. Mobile Trailer Mounted 33/11kV Substations for Emergency Restoration of Distribution system: <ol style="list-style-type: none"> 1 No. in Guwahati Electrical Circle-I. 1 No. in Jorhat Electrical Circle 	<ol style="list-style-type: none"> GEC 1 Md. NuruzZaman, DGM, 94351-01046 Jorhat Kumud Ch. Dihingia, DGM, 94351-51358
Package 4: Supply of Intelligent Modems Including Accessories at Consumer Premises in Different Towns under 19 Electrical Circles		
	<ol style="list-style-type: none"> Installation and interfacing of the existing meters at the Consumer premises with the Modems. Integration of the meter data into the Head end Meter Data Acquisition Software for Display of Meter data. Provision of meter data in standard format (like XML) to APDCL for consumption by the existing SAP ISU System. Warranty Support for the supplied equipment. 	

B. IMPLEMENTATION STATUS

B.1 Procurement Status

The package wise procurement status as per discussion and information provided by PMU is as under:

- The 'signing of contract' for Package-1 has happened on July 31, 2015 and the contractor (M/S NECCON) has mobilized from 17th September, 2015. Out of 20 new 33/11kV sub-stations, 18 sites has been handed over to contractor, except for Gharamara (Kaliapani) and

Podumoni. Considering the techno-economic conditions the sub-stations proposed at Namsung has been shifted to Podumani, but site selection is still in progress.

- In Package 2, after receiving ADB's approval, PMU issued the notice of award of contract to M/s T & T Projects on 23.12.2015. Work is in progress in Package 2.
- In Package 3, after receiving ADB's approval on bid evaluation report of Lot-1, the contract was signed on April 12, 2016 with Hi-Tech Corporation JV Technology Products and it is effective. Works are in progress at Lot-1 and Lot-2.
- In Package 4, after receiving ADB's approval for retendering, the bid was floated on 9th May, 2016. The proposal received were evaluated and placed before the Technical Purchase Committee (TPC) meeting on 15th December, 2016. The report was sent to ADB's approval.

B.2 Sub-Project Implementation Status

Sl.No.	Name of Subprojects	Progress as on date of Report
Package 1		
Lot 1	Tinsukia Electrical Circle	<ul style="list-style-type: none"> • The site for eighteen sub-stations is finalized and handed over to the contractor. The work is in progress at all locations. • The location of Mahakali sub-station has shifted to Chabua Tea Estate. Avoided acquisition of private land. • The REA checklist prepared for Chabua site sub-station to assess suitability of the site and possible impacts – no significant impacts. • The PMU has directed contractor to conduct environmental monitoring at all sub-stations sited. Updating of IEE is still pending due to unavailability of environmental baseline data from contractor. • The acquisition of private land for 33/11kV Gelapukhuri and Gangabari Substation through mutual negotiation is completed. • Construction works for sub-station at Chabua, Powai, Dhola, Geelapukhari, Gangabari, Philobari, and Napuk has started and is in progress.
	i. 7 Nos. New 2X5 MVA, 33/11kV Substations;	
	ii. New 33kV Lines (108.35km);	Route survey has been carried out for 33kV distribution line in Gelapukhuri and Chabua sub-stations under Lot-1. The same is in progress for remaining 33kV and 11kV lines.
	iii. New 11kV Lines (62km);	
	iv. 1 No. Railway track crossing in the 33kV Line;	
	v. 3 Nos. Railway track crossing in the 11kV Line;	• Construction activity for 33kV and 11kV railway crossing has not commenced.

Sl.No.	Name of Subprojects	Progress as on date of Report
Lot 2	Dibrugarh Electrical Circle	<ul style="list-style-type: none"> Site for Gharamara sub-station is finalized but is not handed over to the contractor. The shifting of Namsang sub-station to Padumani has been approval by the ADB, the site selection is still in progress.
	i) 2 Nos. New 2X5 MVA, 33/11kV sub-stations;	
	ii) 15 km 33kV Line on GI STP with AAAC Wolf conductor from Namrup sub-station and 10km from Tingkhong sub-station to Kaliapani sub-station with terminal equipment at Namrup sub-station & Tingkhong sub-station.	<ul style="list-style-type: none"> Route survey of distribution line is in progress.
	iii) New 11kV Lines (22km);	
	Sivasagar Electrical Circle	<ul style="list-style-type: none"> The site for 33/11kV Napuk and Borhat sub-station have been finalised and handed over to the contractor. The compensation payment has been disbursed to the land owner of the Napuk sub-station. In case of Borhat sub-station, the NOC has been obtained from the M/s Borasali TE. Construction activities are in progress for both sub-stations.
	i. 2 Nos. New 2X5 MVA, 33/11kV sub-stations;	
	ii. New 33kV LILLO Lines (18km);	
	iii. New 11kV Lines (35.1km);	<ul style="list-style-type: none"> Route survey of 33kV and 11kV distribution lines distribution line is in progress. Construction activities have not yet started for 33kV railway crossing.
	iv. 1 no. Railway track crossing in the 33kV Line;	
	v. 3 Nos. Railway track crossing in the 11kV Line;	
	Golaghat Electrical Circle	<ul style="list-style-type: none"> Under Golaghat Electrical Circle, three sub-stations are located in tea estate land. The land for the substations is provided by the TE. The site location of Radhabari sub-station which was finalized earlier has been shifted to Rangagorah site and ADB's approval is awaited. Once, the site is approved and environmental monitoring result is available, the IEE shall be updated. Construction activities are in progress.
	i) 3 Nos. New 2X5 MVA, 33/11kV sub-stations;	
	ii) New 33kV Lines with terminal	<ul style="list-style-type: none"> Route survey of 33kV and 11kV distribution line is in

Sl.No.	Name of Subprojects	Progress as on date of Report
	equipment (76km);	progress. <ul style="list-style-type: none">• Work not yet started for 33kV and 11kV lines for at railway crossings.
	iii) New 11kV Lines (76km);	
	iv) 1 no. Railway track crossing in the 33kV Line;	
	v) 4 Nos. Railway track crossing in the 11kV Line;	
Lot 3	Tezpur Electrical Circle	<ul style="list-style-type: none">• The sites for six sub-stations are finalized and have been handed over to the Contractor. The construction works are in progress.
	i) 6 Nos. New 2X5 MVA, 33/11kV Substations;	
	ii) New 33kV LILO Lines (20km)	<ul style="list-style-type: none">• Route survey for 33kv and 11kv distribution line has been completed for Tezpur electrical circle. Work is in progress for construction of 33kV and 11kV distribution lines.
	iii) New 33kV Lines with terminal equipment (131km)	
	iv) New 11kV Lines (125km)	<ul style="list-style-type: none">• In case of 33kV lines with terminal equipment,no activity has started till this reporting period.
	Mangaldoi Electrical circle	<ul style="list-style-type: none">• No activity has started in this reporting period.
	i) 1 No., 33kV strengthening of River crossing span at Ghola river in between 33kV line from Rowta-Kasubil with rail pole.	
Package 2		
A.	33kV Lines for System Strengthening (5 Lines)	<ul style="list-style-type: none">• Route survey for all (five) 33kV system strengthening lines is completed and is under review in concern electrical circle.
B.	11kV Lines for system strengthening(42 Lines)	<ul style="list-style-type: none">• Route survey for 22No's of 11kv system strengthening lines is under review in CPM(PIU) and survey report of 14No's of line is under review in concern electrical circles.• Work for 11 kV feeders from Circuit House Tiniali to Panibharal is completed under R-APDRP project. Hence dropped from ADB financing.• Location for Bedeti is changed to Barang TE in 11 kV feeder line. As Bedeti will be connected to new 33/11kV Bedeti sub-station.• Work will not be undertaken for Makum 33/11 kV S/S to Tila, as no such feeder line exists as informed by concern field officer.

Sl.No.	Name of Subprojects	Progress as on date of Report
C.	Augmentation of six substations	<ul style="list-style-type: none"> Survey report is under review of CPM (PIU) for 4 sub-stations. Jamuguri sub-stations survey report is being reviewed by Tezpur EC. Civil works is in progress at Rajgarh sub-station. Chilapathar sub-station taken up under RGGPY scheme, so, excluded from ADB financing.
D.	11kV Aerial Bunched Cables (ABC) (ABC lines)	<ul style="list-style-type: none"> Route survey for 3Nos of ABC lines in Sivasagar electrical circle is completed and the survey report is under review. Route survey for one line in Dibrugarh electrical circle and two lines (out of 3) in Golaghat electrical is under review of CPM (PIU). In case of GEC route survey was undertaken for 2 lines and it was found that work is not technically feasible.
E.	R&M works of 33/11kV Sub-stations (Civil Works at 38 locations and Electrical Works at 20 locations)	<ul style="list-style-type: none"> All the 'civil works' were excluded from scope of work during bidding process due to (a) High project cost, (b) difficulty in generating rates for BOQ, and (c) decision by PIU to carry out these activities under separate state funding. These activities listed in IEE are indicted in the draft DPR, during which the IEE was prepared. Hence, the civil activities proposed under Repair & Maintenance component have been dropped from ADB's financing. Survey for 'electrical works' is completed for all the substations. In case of Borguri sub-station work is not required. As per survey report of contractor, the proposed electrical is not required at Phukon Nagar 33/11 kV sub-station, so the same electrical works will be done at Gaurisagar 33/11kV substation. SLD approved
Note: Implementation status of each sub-project of Package-2 is provided in Annexure 5 .		

C. DESIGN AND ENGINEERING STATUS

Item	Status	Follow up Required (Y/N)	Type of Required Action
Detailed engineering design of the sub-project submitted by	In Progress	Yes.	<ul style="list-style-type: none"> The built-up area of the sub-station building are less than threshold limit, hence, EC is not envisaged.

Item	Status	Follow up Required (Y/N)	Type of Required Action
the Contractor.			<ul style="list-style-type: none"> Approach road development to Napuk, Bediti, Powai, Gangabari, Borhat, and Philobari sub-stations would require cross drainage structure to allow continuous flow of water in natural drain. The contractor is yet to submit the management of storm water generated within sub-station premise,
Changes in project design/scope (Occurred or envisaged).	<p>A. Package - 1</p> <ul style="list-style-type: none"> ADB's approval received for shifting of sub-stations to new site at Chabua and Padumoni S/S. However, the site selection at Padumoni is in progress. ADB's approval awaited for shifting of sub-station at Radhabari to Rangagorah tea estate. Need for shifting of sub-station proposed at Ghoramara to Kaliapani is being reviewed by PMU/PIU. <p>B. Package 2:</p> <ul style="list-style-type: none"> Changes in length of 11kV line is anticipated. Civil works under R&M component has been dropped from the project scope. 	Yes.	<p>A. Package - 1</p> <ul style="list-style-type: none"> The Implementing Agency is to submit justification for propose shifting of sub-station to Kaliapani site. Due to change in the substation location, the alignment of associated 33kV and 11kV lines is being finalised. <p>B. Package 2:</p> <ul style="list-style-type: none"> The changes shall be updated in the IEE report.

D. COMPLIANCE STATUS

D.1 Compliance with National&State Statutory Environmental Requirement

S.No	Notification/Rule	Requirements	Compliance Status
1.	The Environment Impact Assessment Notification, 2006, as amended	All development project listed in Schedule 1 of EIA notification require getting prior Environmental Clearance.	Power distribution projects are excluded from the Schedule 1 list of EIA notification, 2006.
2.	The Water (Prevention and Control of Pollution) Act, 1974, with Rules	Water Quality and discharge of sewage from project or any other establishment such as labour camp.	<p>A. Package 1:</p> <p>No major impact due to waste water generated from labour camp (10-15 labours) is anticipated. However, contractor has been advised to provide, soak pit with capacity commensurate with quantity and time for</p>

S.No	Notification/Rule	Requirements	Compliance Status
			<p>leaching/evaporation of received waste water.</p> <p>Contractor is yet to start water quality sampling and testing.</p> <p>B. Package 2:</p> <p>Works started in month of December, 2016. The labour are dwelling in rented accommodated, so avoided setting of labpour camp. Regular monitoring shall be done during site visit.</p> <p>Considering scope of works, the Contractor request (Annexure 10) to exclude for sampling and testing is being reviewed internally.</p>
3.	The Air (Prevention and Control of Pollution) Act, 1981, with Rules	Compliance to National Ambient Air Quality Standard	<p>A. Package 1:</p> <p>The activities associated with sub-stations construction are the major source of dust generation. Hence, water sprinkling on dust generating source is monitored during site visit.</p> <p>Contractor is still to start the air quality monitoring.</p> <p>B. Package 2:</p> <p>The scope of works is mostly electrical works and there is no major civil works.</p> <p>Considering scope of works, the Contractor request (Annexure 10) to exclude for sampling and testing is being reviewed internally.</p>
4.	The Ozone Depleting Substances (Regulation and Handling) Rules, 2001 as amended	Avoid equipment using VFCs/PCBs	<p>Monitoring will be carried out to check use of CFCs/PCBs in equipment.</p>

S.No	Notification/Rule	Requirements	Compliance Status
5.	The Batteries (Management and Handling) Rules, 2010	Bulk consumer is responsible to (i) ensure that used batteries are not disposed of in any manner other than by depositing with the registered dealer/manufacturer/recycler or at designated collection centers and (ii) file half yearly return in Form VIII to the SPCB.	Considering scale of construction, generation of battery waste is not envisaged. However, if so happen the compliance would be monitored.
6.	Hazardous and other Waste (Management and Transboundary Movement) rules, 2016	Used/burned transformer oils to be dispose-off in accordance with the Rules. Disposal and Decontamination of empty containers contaminated with hazardous chemicals/waste in accordance to rules. (As per schedule 1)	Handling of hazardous waste (Transformer oil) will be done in accordance with requirements set in the EMP.
7.	Noise Pollution (Regulation & Control) Rules, 2000	Compliance with Ambient Noise Standards in accordance to land use of the area	A. Package 2: The majority of construction activities are being undertaken manually and use of machine is intermittent, so no impact is anticipated. Continuous monitoring during site visit is done. Contractor is still to start noise monitoring. B. Package 2 No impact is anticipated due to activities in this package. Considering scope of works, the Contractor request (Annexure 10) to exclude for sampling and testing is being reviewed internally.
8.	The Forest (Conservation) Act, 1980	Clearance from MoEF/Forest Department if the line passes through the forest area.	No sub-stations site requires diversion of forest land. As of this reporting period, no tree cutting has happened. The tree cutting permission will be obtained as and

S.No	Notification/Rule	Requirements	Compliance Status
			when need arises.

D.2 Compliance with ADBs Environmental Safeguards (SPS, 2009)

S.No	ADBs Requirements	Safeguard	Compliance Requirement	Status
1.	Environmental Assessment		Identify environmental impacts on various resources and determine its significance in consultation with all stakeholders	As per IEE prepared for the project falls under Category –B. Construction activities likely to induce impact are monitored based on EMP prepared for the project.
2.	Environmental Planning and Management	and	The borrower will prepare an EMP that address the potential impacts and risks identified in IEE.	The Package-1 Contractor has submitted their Environment Management Plan (EMP) compliance report for the period July to September and October to December, 2016. The same is still awaited from Package-2 contractor.
3.	Information Disclosure		The borrower will submit to ADB, the final IEE and environmental monitoring report.	The final IEE is disclosed in website of APDCL and ADB. The original IEE needs to be updated considering changes at sub-project level. Once, updating is done, IEE will be disclosed after getting ADB's approval.
4.	Consultation Participation	and	The borrower will carry out consultation with affected persons and other stakeholders. The consultation process and its results are to be documented and reflected in environmental report.	Public consultation was carried out during IEE preparation. In addition, consultation meeting are being conducted with officials of PIU, tea estate, private land owner whose land has been acquired. The people of RajgarhRangoli village (Kaliapani) were consulted in month of November, 2016to capture their opinion on propose shifting of of sub-station at Kaliapani. A similar consultation had happened on September 15, 2016 with local people of Borhat village, where construction of sub-station is in progress. (Annexure 2) In addition to above, meeting had also happened with officials of Implementing Agency and Contractor

S.No	ADB's Requirements	Safeguard	Compliance Requirement	Status
				personals during site visit in month of September and November, 2016.
5.	Grievance Mechanism	Redress	The borrower will establish a mechanism to receive and facilitate resolution of affected persons concerns, complaints and grievance about the project's environmental performance.	The GRC has been formed in Guwahati Zone (Annexure 3). The General Manager Dibrugarh Zone, APDCL has written to The Deputy Commissioner of Tinsukia and Dibrugarh for Constituting GRC in Tinsukia and Dibrugarh. As follow-up, CPM, PIU, APDCL has sought status on GRC formation from all concerned Chief Executive Officers.
6.	Monitoring Reporting	and	The borrower will prepare periodic monitoring reports that describe progress with implementation of EMP and compliance issues and corrective actions.	This environmental safeguard monitoring report is for period of July-December, 2016 capturing the progress of EMP implementation at each sub-project.
7.	Unanticipated environmental impacts		The borrower will update the environmental assessment and EMP where unanticipated environmental impacts become apparent.	<p>Package 1:</p> <ul style="list-style-type: none"> The Chabua (Mahakali), Padumoni (Namsang), and Rangagorah (Radhabari) sub-stations site has changed. As per REA checklist prepared, construction activities induced impacts are anticipated and this likely to be low significance. In addition, shifting of sub-station from Ghoramara to Kaliapani is being reviewed by PMU and PIU. The change in sub-stations site also involves change in alignment of 33kV and 11kV distribution line, which is still yet to be finalized. The IEE will be updated once all sub-station sites and its associated distribution lines alignment is finalized and baseline environmental monitoring data for S/S will be available. <p>Package 2: It has been noticed during the actual route survey that the actual line length varies from the originally provided line length in IEE. No major environmental Impact is anticipated from it. However details</p>

S.No	ADB's Requirements	Safeguard	Compliance Requirement	Status
				of any obstruction if involved will be analyzed after obtaining the finalized survey reports.
8.	Biodiversity conservation and sustainable NRM		The borrower will assess major threat to the biodiversity.	The sub-projects are not located in RF/PF, National Parks, and Wildlife Sanctuaries. Hence, no threat and degradation to critical habitat & natural habitat.
9.	Pollution Prevention and Abatement		Pollution prevention and control technologies consistent with international good practices such as EHS guidelines of the World Bank group.	The implementation of various preventive and mitigation measures listed in the EMP for pollution abatement in the project will be monitored.
10.	Occupational, Health and Safety		The borrower will provide workers with safe and healthy working environment, provide PPE to minimize risks, render training, document the accidents, diseases & incidents, and provide emergency prevention and response managements.	Personal protective equipments (PPE) are provided during construction of sub-stations. However, non-compliance was also reported and will be monitored.
11.	Physical Cultural Resources (CPR)		The borrower to avoid significant damage to physical cultural resources.	No impact on CPR reported till this reporting period.

D.3 Compliance with Covenant

Item No.	Covenants	Status of Compliance																								
Schedule 5, para. 7	The Borrower shall ensure or cause the EA to ensure that all land and all rights-of-way required for the Project, and all Project/Subproject facilities are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with	Out of 20 substations, only 4 substations will be constructed on private land belong to individual owner. Land for 33/11kV Napuk substation (Lot-2),Gelapukhuri and Gangabari (Lot-1) have been acquired and compensation has already been paid to the land owners. Requisition for acquiring land for 33/11kV Ghoramora (Kaliapani) sub-station, the negotiation with land owner is completed and Implementing Agency has forwarded requisition to PMU/PIU for acquiring private land. The proposal is being reviewed by PMU/PIU. The site selection for Podumoni sub-station is still in progress. 18 substation sites are handed over to contractor out of 20 substations. All the land acquisition and resettlement activities are being implemented in compliance with the applicable laws and regulations.																								
	(a) all applicable laws and regulations of the Borrower and the State relating to land acquisition and involuntary resettlement;																									
	(b) the Involuntary Resettlement Safeguards;																									
	(c) the RF; and																									
	(d) all measures and requirements set forth in the respective RP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.																									
Schedule 5, para. 8	Without limiting the application of the Involuntary Resettlement Safeguards, the RF or the RP, the Borrower shall ensure or cause EA to ensure that no physical or economic displacement takes place in connection with any Subproject until:	There is no physical displacement due to sub-project under Tranche-4. The extent of economic displacement of AP due to land acquisition is mentioned in below table. <table><tr><th>S/S Name</th><th>Name of the AP</th><th>Total land holding (Ha)</th><th>Affected Land (Ha)</th><th>% of Total Land Holding</th></tr><tr><td>Napuk</td><td>MadhurjyaHandique</td><td>2.67</td><td>0.27</td><td>10.11%</td></tr><tr><td rowspan="2">Gangabari</td><td>Mrs. AshiyaKhatun</td><td>2.13</td><td>0.10</td><td>4.69%</td></tr><tr><td>Md. Samad Ali</td><td>2.00</td><td>0.10</td><td>5%</td></tr><tr><td>Gelapukhuri</td><td>MrinalDohotia</td><td>2.13</td><td>0.21</td><td>9.85%</td></tr></table> Compensation and other entitlements will be paid in accordance with the RP in case of any unforeseen circumstance.	S/S Name	Name of the AP	Total land holding (Ha)	Affected Land (Ha)	% of Total Land Holding	Napuk	MadhurjyaHandique	2.67	0.27	10.11%	Gangabari	Mrs. AshiyaKhatun	2.13	0.10	4.69%	Md. Samad Ali	2.00	0.10	5%	Gelapukhuri	MrinalDohotia	2.13	0.21	9.85%
	S/S Name		Name of the AP	Total land holding (Ha)	Affected Land (Ha)	% of Total Land Holding																				
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Md. Samad Ali		2.00	0.10	5%																						
Gelapukhuri	MrinalDohotia	2.13	0.21	9.85%																						
(a) compensation and other entitlements have been provided to affected people in accordance with the RP; and																										
(b) Comprehensive income and livelihood restoration program has been established in accordance with the RP.																										
Schedule	The Borrower shall ensure or cause EA to ensure that the	The compliance to requisite regulatory requirements is being																								

Item No.	Covenants	Status of Compliance
5, para. 9	<p>preparation, design, construction, implementation, operation and decommissioning of the Project, and all Subprojects' facilities comply with</p> <p>(a) all applicable laws and regulations of the Borrower and the State relating to environment, health, and safety;</p> <p>(b) the Environmental Safeguards;</p> <p>(c) the EARF; and</p> <p>(d) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	ensured and compliance monitoring will be done for EMP implementation by the contractors.
Schedule 5, para. 10	The Borrower shall ensure or cause EA to ensure that the Project does not involve any indigenous people's risks or impacts within the meaning of the SPS. If due to unforeseen circumstances, the Project involves any such impacts, the Borrower shall take all steps necessary or desirable to ensure that the Project complies with all applicable laws and regulations of the Borrower and State and with the SPS.	Initial RP has not identified any indigenous people. No indigenous people were identified during initial sub-stations site verification survey. However, all steps necessary or desirable will be taken to ensure that the Project complies with all applicable laws and regulations of the Borrower and State and with the SPS.
Schedule 5, para. 11	The Borrower shall ensure or cause EA to ensure that all necessary budgetary and human resources to fully implement the EMP, the RP and the IPP as required, are made available.	The budget for RP shall be through counterpart funding and that of EMP has been included in the contracts of works.
Schedule 5, para. 12	<p>The Borrower shall ensure or cause EA to ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>(a) comply with the measures and requirements relevant to the contractor set forth in the IEE, the EMP, and the RP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards</p>	<p>The EMP is made a part of the contract including budget for environmental measures. The cost of Social Safeguard measures is through counterpart share.</p> <p>All the necessary steps will be taken in due course of time for any unanticipated environmental resettlement of indigenous people risks or impacts that arise during construction.</p>

Item No.	Covenants	Status of Compliance
	<p>Monitoring Report;</p> <p>(b) make available a budget for all such environmental and social measures;</p> <p>(c) provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, or the RP;</p> <p>(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</p> <p>(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction;</p>	
Schedule 5, para. 13	<p>The Borrower shall ensure or cause EA to ensure the following:</p> <p>(a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p> <p>(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, or the RP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP or the RP promptly after becoming aware of the breach.</p>	<p>The 3rdBi-annual Environmental Safeguard Monitoring Report for the period January-June, 2016 have already been submitted to ADB on 22ndAugust, 2016.</p> <p>This report is for the period of July – December, 2016.</p> <p>All the necessary safeguard monitoring will be done time basis and will be included in the bi-annual Safeguard Reports as per the prescribed guidelines.</p>

Item No.	Covenants	Status of Compliance
Schedule 5, para. 15	The Borrower and EA shall ensure that Works contracts under the Project follow all applicable labour laws of the Borrower and the State and that these further include provisions to the effect that contractors; (a) carry out HIV/AIDS awareness programs for labour and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and	Civil works are in progress at sub-stations. The same is in progress at 33kV and 11kV distribution lines sub-project whose alignment are finalised. The Contractor compliance to statutory requirements requires improvement.
	(b) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts shall also include clauses for termination in case of any breach of the stated provisions by the contractors.	

D.4 Compliance with Environmental Management Plan

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
Pre-Construction			
Temporary use of lands	Impact to the existing environment	Selection of lands adhering to local laws and regulations and in close consultation with LAs Contraction facilities should be placed at least 10 m away from water bodies, natural flow paths, important ecological habitats and residential areas	<ul style="list-style-type: none"> As per sub-stations land availability and site finalization status available from implementing agency, site for 19substations has been selected. All the selected sites are away from any ecological sensitive area or water body. Substation site selection is in progress at Podumoni.
Substation location and design	Noise generation Exposure to noise, Nuisance to neighboring properties Disturbance to the adjacent lands and the people due to cut and fill operations	Substation designed to ensure noise will not be a nuisance. Maintain adequate clearance, construction of retaining structures, minimize cut and fill operations adjoining to the dwellings	15 sub-stations site are located away from settlement area, except for 5 sub-stations. Sub-stations sites located in close proximity to residential area will be monitored.
Location of poles and line alignment and design	Exposure to safety related risk	Setback of dwellings to overhead line route designed in accordance with permitted level of power frequency and the regulation of supervision at sites.	<ul style="list-style-type: none"> During alignment finalization will ensure safe offset is provided.
	Impact on water bodies/land/ residences	Consideration of site location at where they could be located to avoid water bodies or agricultural land as much as possible.	<ul style="list-style-type: none"> Majority of the sub-stations site is located away from water bodies. Regular monitoring will be done to prevent and mitigate impact on water bodies.

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
Equipment Specifications and design parameters	Release of chemicals and harmful gases in receptors (air, water, land)	PCBs not used in substations transformers or other project facilities or equipment	<ul style="list-style-type: none"> • Would be monitored at time of procurement of equipment.
Encroachment into precious ecological areas	Loss of precious ecological values/ damage to precious species	Avoid encroachment by Careful site selection to avoid existing settlements.	<ul style="list-style-type: none"> • Sub-stations sites are not located in ecological sensitive area.
Encroachment into Forest Areas	Trees to be cut for distribution line	Avoid trees to be cut by careful site alignment selection. Minimize the RoW wherever possible Afforestation to be done in coordination with forest department.	<ul style="list-style-type: none"> • Sub-stations sites are not located in forest area. • The 33kV and 11kV lines are passing through tea estate. The need for tree cutting has not been reported till now.
Involuntary resettlement or land acquisition	Loss of lands and structures	Compensation paid for temporary/ permanent loss of productive land.	<ul style="list-style-type: none"> • Land for 33/11kV Napuk substation (Lot-2), Gelapukhuri and Gangabari (Lot-1) have been acquired and compensation has already been paid to the land owners. Requisition for acquiring land for 33/11kV Ghoramora (Kaliapani) sub-station, the negotiation with land owner is completed and Implementing Agency has forwarded requisition to PMU/PIU for acquiring private land. • Till this reporting period, no encumbrances within ROW of distribution line is reported. In

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
			<p>case, if reported identification and verification will be done to comply with RF.</p> <ul style="list-style-type: none"> No involuntary resettlement envisaged.
Encroachment into farmland	Loss of agricultural productivity.	<p>Use existing poles wherever possible</p> <p>Avoid sighting new poles on farmland wherever Farmers compensated for any permanent loss of productive land trees that need to be trimmed or removed along RoW.</p>	<ul style="list-style-type: none"> The damage of crop/trees is not reported till this reporting period. In case reported, compliance with RF will be ensured.
Interference with drainage patterns/Irrigation channels	Temporary flooding hazards/ loss of agricultural production.	Appropriate sighting of poles to avoid channel interference.	<ul style="list-style-type: none"> The approach road development to Napuk, Bediti, Powai, Gangabari, Borhat, Philobari sub-stations anticipate blocking of natural drain. Need for cross drainage structure is under review of PIU. The contractor has been advised to provide temporary measures during construction period to ensure continuous flow of water and preventing localized stagnation. No impact anticipated due to construction of distribution line.
Explosions/ Fire	Hazards to life.	Design of substations to include modern fire control systems/ firewalls.	<ul style="list-style-type: none"> Fire wall will be provided between the two transformers and

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
		Provision of firefighting equipment to be located close to transformers, power generation equipment.	firecontrol system/equipment will be provided at operation stage.
Construction			
Removal or disturbance to other public utilities.	Public inconvenient.	<p>Advance notice to the public about the time and the duration of the utility disruption.</p> <p>Use of well trained and experienced machinery operators to reduce accidental damage to the public utilities.</p> <p>Restore the utilities immediately to overcome public inconvenient.</p>	<ul style="list-style-type: none"> No disruption to utility services is envisaged.
Acquisition of paddy fields and other lands.	Loss of agricultural productivity.	<p>Avoid farming season wherever possible for the project activities.</p> <p>Ensure existing irrigation facilities are maintained in working condition.</p> <p>Protect/ preserve topsoil and reinstate after construction completed.</p> <p>Repair/ reinstate damaged bunds etc. after construction completed.</p> <p>Compensation for temporary loss in agricultural production.</p>	<ul style="list-style-type: none"> For three sub-stations private land have been acquired. In case of 12 sub-stations sited at tea estate's NOC/MOU have been obtained. Land compensation has been paid to owners of land acquired for Ganagbari, Napuk, and Gelaphukri substation. No acquisition of land is required for distribution line. However compensation for loss of tree, crops or any other will be paid as per RF.
Temporary outage of the electricity.	Loss of power supply to the local community when distribution lines crossing the new line are switched	<p>Advance notice to the public about the time and the duration of the utility disruption.</p> <p>Restore the utilities immediately to overcome public inconvenient.</p>	<ul style="list-style-type: none"> No such complaints have been noticed.

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
	off.		
Equipment layout and installation.	Noise and vibrations.	Selection of construction techniques and machinery to minimize ground disturbance.	<ul style="list-style-type: none"> New technology and machinery being use as information provided by contractor.
Substation construction.	Loss of soil. Water pollution	<p>Fill for the substation foundations obtained by creating or improving local drain system.</p> <p>Construction activities involving significant ground disturbance (i. e. substation land forming) not undertaken during the monsoon season.</p>	<ul style="list-style-type: none"> Earth filling will be needed at all sub-station sites, however, major filling is anticipated at Powai, Bediti, Napuk, Borhat, Borjuli, Gangabari, and Dholasub-stations to bring the level at par with surrounding ground level. The activity will be monitored. The contractor has been directed to provide details of borrow area identified.
Construction schedules	<p>Noise nuisance to neighboring properties.</p> <p>Nuisance to Wild life if the line route construction crosses migratory path.</p>	<p>Construction activities only undertaken during the day and local communities informed of the construction schedule.</p> <p>Complete restriction of construction work for two months before and after the known period of migration by the animals.</p>	<ul style="list-style-type: none"> No significant noise related issues are envisaged. Sub-project locations are not situated at migration route of animals.
Provisions of facilities for construction workers.	Contamination of receptors (land, water, air).	Construction work force facilities to include proper sanitation, water supply and waste disposal facilities.	<ul style="list-style-type: none"> The shelters provided to the labour require improvement and the same has been communicated during site visit and review meetings. Further to prevent inflow of

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
			surface runoff during monsoon and to provide dry floor, the contractor personnel at site has been advised to raise the floor level of labourshelter by 1 to 2 feet above the local ground level and provide the basic utilities in appropriate manner.
Surplus earthwork/ soil.	Runoff to cause water pollution, solid waste disposal.	Any excess material will only be used as fill material offsite when the owner's agreement has been obtained and with the disposal site restored in a manner that prevents erosion and does not block any drainage path.	<ul style="list-style-type: none"> Excess material from excavation for foundation of structure will be utilized for leveling the sub-station site. Further, the need for cross drainage structure are being reviewed by PIU to ensure continuous waterway.
Air Pollution	Loose dust might blow in the area causing dusty conditions.	Damping of dust by sprinkling of water within the work area and stack the loose soil and contain it with covers if required.	<ul style="list-style-type: none"> No issue related to dust generation has been reported due to construction activities.
Wood/ vegetation harvesting, cut and fill operations.	<p>Loss of vegetation and deforestation.</p> <p>Effect on fauna</p>	<p>Construction workers prohibited from harvesting wood in the project area during their employment. Prevent his work force from disturbing to the flora, fauna including hunting of animal and fishing in water bodies.</p> <p>Proper awareness program regarding conservation of flora, fauna including ground vegetation to all drivers, operators and other workers.</p>	<ul style="list-style-type: none"> At Bindukuri, Rakhyshmari sub-stations, labours are being provided LPG and kerosene for cooking. However, in remaining sub-stations fuel wood is purchased from market.

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
Site clearance.	Vegetation	Marking of vegetation to be removed prior to clearance and strict control on clearing activities to ensure minimal clearance.	<ul style="list-style-type: none"> Need for pruning tree branches has not been reported. In case if identified, it will be pruned or cut after obtaining necessary permission.
	Soil erosion and surface runoff.	<p>Construction in erosion and flood-prone areas should be restricted to the dry season.</p> <p>Treat clearing and filling areas against flow acceleration and construction work should be carefully designed to minimize obstruction or destruction to natural drainage.</p>	Earth filling activity is taken up during dry season and adequate measures are being taken during construction period to avoid interference with local drainage patterns.
Mechanized construction	<p>Noise, vibration and operator safety, efficient operation.</p> <p>Noise, vibration, equipment wear and tear.</p>	<p>Construction equipment to be well maintained.</p> <p>Proper maintenance and turning off equipment not in use.</p>	<ul style="list-style-type: none"> New or maintained equipment/machinery is used during construction.
Construction of roads for accessibility.	<p>Increase in airborne dust particles.</p> <p>Increased land requirement for temporary accessibility.</p>	<p>Existing roads and tracks used for construction and maintenance access to the site wherever possible.</p> <p>New access ways restricted to a single carriageway width within the RoW.</p>	<ul style="list-style-type: none"> Access road concerns are being reviewed and any improvement of road will be limited within the ROW.
Transportation and storage of materials.	Nuisance to the general public.	<p>Transport loading and unloading of construction materials should not cause nuisance to the people by way of noise, vibration and dust.</p> <p>Avoid storage of construction materials beside the road, around water bodies, residential or public sensitive locations.</p>	<ul style="list-style-type: none"> The damage of existing road shall be maintained by the Contractor at their own cost to prevent inconvenience to the local resident during transportation of goods, equipment and materials. Improvement required, except for

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
		Construction materials should be stored in covered areas to ensure protection from dust, emissions and such materials should be bundled in environment friendly and nuisance free manner.	cement storage. Excavated earth needs to be stacked at one location.
Trimming/ cutting of trees within RoW.	Fire hazards. Lose of vegetation and deforestation.	Trees allowed to grow upto a height within the RoW by maintaining adequate clearance between the top of tree and the conductor as per the regulations. Trees that can survive pruning to comply should be pruned instead of cleared. Felled trees and other cleared or pruned vegetation to be disposed of as authorized by the statutory bodies.	<ul style="list-style-type: none"> Till this reporting period stringing of line has not started. The need for need for trimming or cutting of trees will after obtaining necessary approval.
Health and safety.	Injury and sickness of workers and members of the public.	Contract provisions specifying minimum setback requirements for construction camps from water bodies, reserved areas etc. Contractor to prepare and implement a health and safety plan. Contractor to arrange for health and safety awareness programmes.	<ul style="list-style-type: none"> Contractor has been advised to carry out disinfection/provide filter and storage tank for drinking water, and to kept reinforcement bar away from labour movement areas along with barricading of excavated areas. Contractor has been directed to carry out annual health checkup of workers.
Nuisance to nearby properties.	Losses to neighboring land uses/ values.	Construction clauses specifying careful construction practices. Use existing ways as much as possible. Productive land will be reinstated following completion of construction.	<ul style="list-style-type: none"> No such impact envisaged.

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status
		Compensation will be paid for loss of production, if any.	
Operation and Maintenance			
Electric shock	Death or injury to the workers and public.	Security fences around substation. Establishment of warning signs. Careful design using appropriate technologies to minimize hazards.	• Will be monitored after completion of operational facilities.
Noise generation.	Nuisance to the community around the site.	Provision of noise barriers.	
SF6 Gas levels.	Leakage of SF6	Monitoring of SF6 gas form Electrical Substations.	
Maintenance of Distribution line.	Exposure to electromagnetic interference.	Distribution line to comply with the design parameters of electromagnetic interference from cables.	
Substation maintenance.	Exposure to electromagnetic interference.	Substation design to comply with the parameters of electromagnetic interference from instruments within floor area.	
Oil spillage.	Contamination of land/ nearby water bodies.	Substation transformers located within secure and impervious bundled areas with a storage capacity of at least 100% of the capacity of oil in transformers and associated reserve tanks.	

D.5 Compliance with Environmental Monitoring Plan

Environmental Component	Project Stage	Parameters to be Monitored ³	Responsibility	Frequency	Compliance Status
Air Quality	Pre-construction stage	Visible dust.	Contractor/EA	One time	No visible dust was noticed during the site visits conducted by environmental consultants. The contractor is still to start the environmental monitoring.
	Construction Stage.	Visible dust, use of water sprays for dust suppression.	Contractor	One time	No visible dust was noticed during the site visits and contractor was advised to spray water if any activities involve dust generation. The contractor is still to start the environmental monitoring.
	Operation Stage.	Visible dust, use of water sprays for dust suppression.	EA	Once in 2 years	Will be monitored during operation stage.
Water Quality	Pre-construction Stage	EA and contractors to document water source and wastewater treatment design.	Contractor/EA	One time	No waste water will be generated in pre-construction period.
	Construction Stage.	EA and contractors to document water source and wastewater treatment system installed pH, BOD, Oil & Grease.	Contractor	One time	The water quality monitoring is still to start and the Contractor has been advised to start the monitoring during review meeting held on December, 2016.
	Operation Stage	Water source and wastewater treatment.	EA	Once in 2 years	Will be monitored during operation stage.

³Air emissions will be limited to dust and construction vehicle emissions during construction; other primary air pollutant monitoring is not deemed necessary. Wastewater will be limited to domestic/sanitary discharge during construction and operation; if groundwater is used by substations there could be some impact on water availability in nearby wells used for community water supplies. Potential soil contamination will be limited to fuel and lubricating oil spills during construction and possible mineral oil spills from transformers during operations.

Environmental Component	Project Stage	Parameters to be Monitored ³	Responsibility	Frequency	Compliance Status
Noise/ Vibration.	Pre-construction stage	Noise level [dB (A)]	Contractor/EA	One time	No activity generating noise was taken up. Noise monitoring is still to happen.
	Construction Stage.	Noise level [dB (A)]	Contractor	One time	The majority of construction activities don't involve any noise generation. The contractor is carrying out the construction activities in day time to avoid impact due to noise. The noise monitoring is yet to start and the Contractor has been advised to start the monitoring during review meeting held on December, 2016.
	Operation Stage.	Noise level [dB (A)]	EA	Once in 2 years	Will be monitored during operation stage.
Soil	Pre-Construction stage	Visible spills and/ or soil staining, Oil & grease.	Contractor/EA	One time	No Impact is anticipated on soil quality during pre-construction period. The contractor has not started the monitoring till date.
	Construction Stage.	Visible spills and/ or soil staining, Oil & grease.	Contractor	One time	Advised contractor for storage of transformer oil over impervious platform and under shed to avoid any soil contamination. The monitoring soil quality is yet to happen and the Contractor has been advised to start the monitoring during review meeting held on December, 2016.
	Operation Stage.	Visible spills and/ or soil staining, Oil & grease.	EA	Once in 2 years	Will be monitored during operation stage.

E. ANY OTHER ENVIRONMENTAL ASPECT NOT COVERED IN INITIAL ENVIRONMENTAL EXAMINATION

There are possibilities of change in siting of sub-station due to technical and other issues. Base on decision of IA and approval of PIU, the status will be reported.

F. INSTITUTIONAL MECHANISM

Sl.No.	Parameters	Compliance Status
1	Numbers of Staff deputed/ employed for environment safeguards	PMU has designated One Assistant Manager in the month of October 2016 as in charge of ESMU who has oversight responsibilities for monitoring all subprojects in areas such as environmental, R&R and social safeguards. The duties of the ESMU will include at a minimum (i) oversight of field offices and construction contractors for monitoring and implementation of mitigation measures. (ii) Liaising with the field officers and contractors and seeking their help to solve an environmental related issue of subproject implementations and (iii) preparation of environmental monitoring reports every 6 months (as required by ADB). ESMU will coordinate with PIU for monitoring as well as designing appropriate mitigation measures to address as environmental and social.
2	PMU/PIU established as per proposed institutional mechanism	The ESMU has been reconstituted vide Office Order No. APDCL/PMU/APSEIP/ESMU/2015-16/249/ Dated 19-march-2016.
3	GRC formation	The GRC has been formed in Guwahati Zone (Annexure 3). The General Manager Dibrugarh Zone, APDCL has written to The Deputy Commissioner of Tinsukia and Dibrugarh for Constituting GRC in Tinsukia and Dibrugarh. As follow-up, CPM, PIU, APDCL has sought status on GRC formation from all concerned Chief Executive Officers.

G. GRIEVANCE REDRESS AND THEIR RESOLUTION

S.No	Complainant Name and Address	Date of receipt	Subject/ Issue	Remarks
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I	No Complaint received till date.	NIL	NIL	No issue reported till date.
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H. ISSUES AND ACTIONS RECOMMENDED

Sl. No	Activity/Key issue	Suggestion	Responsibility	Action Taken till December, 2016
i.	Though contract has been awarded, the geographical locations of four sub-stations propose for a change need is still to be confirmed.	The proposed change of geographical location of sub-projects should be informed to the ADB for information and seeking concurrence.	Implementing Agency	Administrative and ADB's approval received for shifting of sub-stations from MahakalitoChabua and Namchung to Padumoni. Site selection is still in progress for sub-station shifted to Padumoni. PIU sought clarification from IA on need for shifting of sub-station from Ghoramara to Kaliapani. ADB's approval is awaited for shifting of sub-station at Radhabari to Rongagorah.
		Resettlement Plan and IEE prepared for the project needs to be updated once location of sub-stations are finalized.	Consultant	Conformation of approval for change in location of two S/S (Kaliapani and Rongagorah) is still to be confirmed and alignment of associated 33kV and 11kV is still to be finalise. Once, all sub-projects site is confirmed, the IEE will be updated.
ii.	The para 62 of Project Administration Manual mandate establishing of Grievance Redress Committee (GRC) at implementing agency level to deal with complaints covering environmental and social issues.	PMU needs to initiate the process for establishing the GRC.	Executing Agency	The ADB Cell, APDCL through their letter dated Dec 29, 2015 has directed its field units to form GRC. The GRC is constituted in Guwahati Zone and is yet to happen in remaining zones, As follow-up, CPM, PIU, APDCL has sought status on GRC formation from all concerned Chief Executive Officers.

Sl. No	Activity/Key issue	Suggestion	Responsibility	Action Taken till December, 2016
iii.	Keeping regular follow-up on implementation status of environmental safeguards in the project.	<ul style="list-style-type: none"> PMU needs to direct implementing agency and contractor to submit a quarterly progress report and conduct quarterly review meeting. The review meeting should also be attended by representatives of the contractor also, along with official of EA, IA and Individual safeguard expert. 	Executing Agency	<p>Package-1: The EMP compliance report for 3rd and 4th quarter of 2016 has been received.</p> <p>Package-2: the contractor is yet to submit the EMP compliance report.</p> <p>PMU had a Review Meeting with Contractor on December 28, 2016.</p>
iv.	One the compliance of all sub-projects is not uniform and being reported in one EMP format.	The EMP compliance report for each sub-stations should be reported separately as per format shared during Review Meeting.	Contractor	The contractor has submitted the EMP compliance status along with QPR provided by contractor.
v.	The supporting documents indicating compliance to regulatory requirements are not provided.	Contractor should provide the necessary documents as required for EMP	Contractor	<p>Package 1 contractor has submitted Labour License, merine cum erection insurance, PUC, and Challan for aggregate and sand.</p> <p>Package-2 contractor has only submitted the Labour License.</p>
vi.	Environmental Monitoring	Contractor should start environmental monitoring at earliest to obtain the baseline data at respective substations.	Contractor	<p>PIU has directed contractors to conduct environmental monitoring vide letter number CPM(PIU)/APDCL/ADB/Tranche-4/PKG-1/201 4/114 DATED 20/9/2016, and CPM(PIU)/APDCL /ADB/Tranche-4/IEE/2014/10 Dated: 05/10/ 2016 to contractor of Package 1 and CPM(PIU)/APDCL/ADB/Tranche-4/IEE/2014/11 Dated: 05/10/2016 to contractor of Package 2</p>

Sl. No	Activity/Key issue	Suggestion	Responsibility	Action Taken till December, 2016
				Package 2 contractor has requested PMU to exempt the environmental monitoring as they are only undergoing R&M which doesn't involve much civil work and no impact is envisaged in case of R&M vide Letter No: T&TP/APDCL/ ADB/ AUG & R&M WORKS / DWG / 16-17 / SS-56 Received by PIU on: 31/11/16. Refer Annexure 10
vii.	Obstruction to natural drain and need to ensure continuous waterway at Napuk, Bediti, Powai, Gangabari, Borhat, Philobari sub-stations	During construction stage, cross drainage structures such as hume pipe needs to be provided at sub-station approach road obstructing waterway.	Implementing Agency	A review is being undertaken at EA level to decide on permanent measures to ensure continuous flow of water.
viii.	Manager of Radhabari Tea Estate has raised concerns regarding the cutting of shades trees and tea bushes which will come within the ROW of the incoming and outgoing 33kV and 11kV feeder line from proposed Radhabari sub-station.	Site has been identified and finalised at Rangagora Tea Estate. The approval of ADB's has been requested.	Implementing Agency Executing Agency	Rangagora Tea Estate has donated land for construction of sub-station.

Annexure 1

Details of Implementing Agency, APDCL

Sl. No.	Name of the Sub station	Electrical Circle	Electrical Division	Name & Contact Numbers	Electrical Sub Division (PIU)	Name & Contact Numbers
Package-1 (Lot 1): (i) 7 Nos. of new 33/11kV Substations; (ii) New 33kV Lines (108.35km); (iii) New 11kV Lines (62km); (iv) 1 no. Railway track crossing in the 33kV Line and (v) 3 Nos. Railway track crossing in the 11kV Line						
1	33/11kV Gangabari S/S	Tinsukia	Tinsukia Division	Mr. JagadishBaishya (AGM) 94353-42745	TinsukiaESD-II	Mr. Rabi SankarSengupta, Assistant Manager, TEC, - 94350-36018
2	33/11kV Gelapukhuri S/S				TinsukiaESD-III	Mr. A.K. Bordoloi (SDE), 94350-37152
3	33/11kV Mahakali/Chabua S/S				TinsukiaESD-III	
4	33/11kV Baghjan S/S		Digboi Division	Mr. G. D. Deuri (AGM) 94350-80038	Doomdooma ESD	Mr. Debnath, SDE, 94354-75707
5	33/11kV Philobari S/S					
6	33/11kV Dhola S/S				Margherita ESD	Mr. BinitaKutun, J.M, Margherita SD, 84860-34133.
7	33/11kV Powai S/S					
Package 1 (Lot 2): (i) 2 Nos. New 2X5 MVA, 33/11kV Substations; (ii) 15 km 33kV Line on GI STP with AAAC Wolf conductor form Namrup substation and 10km from Tingkhong substation to Kaliapani substation with terminal equipment at Namrup substation &Tingkhong substation and (iii) New 11kV Lines (22km)						
8	33/11kV Gharamara S/S	Dibrugarh	Dibrugarh Division		Dibrugarh ESD-II	Mr. RajibGogoi, SDE,94357-06105 Mr. SankarMili, JM,94357-06116
9	33/11kV Namchang/Padumoni S/S				Dibrugarh ESD-I	Mr. MahenBuragohain, SDE, 94357-06104
Package 1 (Lot 2): (i) 2 Nos. New 2X5 MVA, 33/11kV Substations; (ii) New 33kV LILO Lines (18km); (iii) New 11kV Lines (35.1km); (iv) 1 no. Railway track crossing in the 33kV Line; (v) 3 Nos. Railway track crossing in the 11kV Line;						
10	33/11kV Napuk S/S	Sivasagar	Nazira Division	Mr. Dipendra Kr. Baruah (AGM), 94353-88745	Nazira ESD	Mr. DimbeswarCharukia, SDE, 94355-27488
11	33/11kV Borhat S/S				Choraideu ESD	Mr. SumitSinha, SDE, 73990-62073
Package 1 (Lot 2): (i) 3 Nos. New 2X5 MVA, 33/11kV Substations; (ii) New 33kV Lines with terminal equipment (76km); (iii) New 11kV Lines (76km); (iv) 1 no. Railway track crossing in the 33kV Line; (v) 1 no. River crossing in the 33kV Line. (vi) 4 Nos. Railway track crossing in the 11kV Line;						

Sl. No.	Name of the Sub station	Electrical Circle	Electrical Division	Name & Contact Numbers	Electrical Sub Division (PIU)	Name & Contact Numbers
12	33/11kV Dayang S/S	Golaghat	Golaghat Division	Mr. HarendraNathSaikia (AGM), 94350-54388	Golaghat ESD-I	Mr. ParagJyotiDutta, SDE, 94350-51051
13	33/11kV Naharbari S/S				Golaghat ESD-II	Mr. Kamala Kt. Pegu, SDE, 97079-99525
14	33/11kVRadhabari/RangagorahS/S				Kamargaon ESD	Mr. B. C. Bhatta, SDE, 94353-02541
Package-1 (Lot 3): (i) 6 Nos. New 2X5 MVA, 33/11kV Substations; (ii) New 33kV LILO Lines (20km) (iii) New 33kV Lines with terminal equipment(71.4km) (iv) New 11kV Lines (125km); Mangaldoi Electrical Circle: 1 no, 33kV strengthening of River crossing span at Ghola river in between 33kV line from Rowta-Kasubil with rail pole.						
15	33/11kV Singri S/S	Tezpur	Dhekiajuli Division	Mr. Chandan Borah, AGM, 94350-80537	Dhekiajuli ESD-II	Mr. PranjolKakoty, SDE, 88765-89078
16	33/11kV Borsala S/S				Dhekiajuli ESD-I	Mr. Debojit Das, FME, 97076-83391
17	33/11kV Rakshyasmari S/S		BiswanathChariali Division	Mr. Mokshada, AGM, 98540-54613	Chariali ESD	Mr. DilipSaikia, AM,94355-06295
18	33/11kV Bedeti S/S					
19	33/11kV Bindukuri S/S		Tezpur Division	Mr.Rafiul Amin Dewan, 94351-07259	Tezpur ESD-II	Mr. BirinchiChetia, JE,73990-90586
20	33/11kV Borjuli S/S				Rangapara ESD	Mr. Pukhrel, SDE, 73990-90608

Annexure 2

Safeguard Implementation Status

2.1 Activities performed during July- December 2016

The individual Safeguard Specialist provided services during the reporting period and has spent time in carrying out detailed review of progress and gaps on implementation of social and environmental measures in the project. Follow-up for updating status on pending land status of all sub-stations with IA divisions and has appraise the PMU. The activities carried out by the Social & Environmental Consultant team during this reporting period (**July to December 2016**) are provided below.

- Follow-up with IA to confirm location of sub-stations;
- Visited sub-projects (Table 2) to check compliance with environmental safeguard and measures in EMP.
- Prepared and submitted the monthly and quarterly progress reports due during this reporting period;
- Prepared and submitted the Bi-Annual Social & Environmental Safeguard Monitoring Report to the Director, PMU, and APDCL.
- Prepared and submitted the inspection reports for site visit conducted to sub-projects indicated in Table 2;
- Advice PMU to communicated the contractor to conduct environmental monitoring at sub-station site and to submit their monitoring schedule;
- Communicated PMU to direct the contractor to submit the final alignment of 33kV and 11kV distribution line, route survey map indicating the RoW, marking the locations and type of features likely to be affected the progress.
- Coordinated the Review Meeting with official of PMU, PIU and Contractor responsible for safeguards implementation;

2.2 Safeguard Review Findings

- Sub-station site selection at Podumoni is still in progress. The details of sub-stations site finalized till this reporting period is in Table 1.

Table 1: Sub-stations site finalisation status

As on December 2016

Sub-project Particular			Original RP, August 2014		Actual Status		
Sl. No	Name of sub-station	Area (Ha)	Ownership	Name of the Owner	Area (Ha)	Ownership	Name of the Owner
1	33/11kV Bindukuri	0.2	Tea Estate Land	Tezpur & Ghara TE	0.268	Tea Estate Land	Tezpur & Ghara TE
2	33/11kV Borjuli	0.134	Government Land	Not Applicable	0.134	Tea Estate Land	Borjuli TE
3	33/11kV Bedeti	0.3	Tea Estate Land	Bihali TE	0.133	Tea Estate Land	Bihali TE
4	33/11kV Singri	0.268	Government Land	Not Applicable	0.268	Government Land	Not Applicable
5	33/11kV Rakhymari	0.268	Government Land	Not Applicable	0.268	Government Land	Not Applicable
6	33/11kV	0.268	Government	Not Applicable	0.268	Government	Not Applicable

Sub-project Particular			Original RP, August 2014		Actual Status		
Sl. No	Name of sub-station	Area (Ha)	Ownership	Name of the Owner	Area (Ha)	Ownership	Name of the Owner
	Borsola		Land			Land	
7	33/11kV Baghjan	0.268	Tea Estate Land	Baghjan TE	0.268	Tea Estate Land	Baghjan TE
8	33/11kV Gangabari	0.45	Private Land	Md. Samad Ali	0.20	Private Land	i. Md. Samad Ali ii. Mrs. Ashiya Khatun
9	33/11kV Mahakali	0.134	Private Land	Chandradhar Malakar	0.134	Tea Estate Land	Chabua TE
10	33/11kV Dholla	0.268	Tea Estate Land	Dholla TE	0.268	Tea Estate Land	Dholla TE
11	33/11kV Gelapukhuri	0.134	Private Land	Mr. Mrinal Dohutia	0.213	Private Land	Mr. Mrinal Dohutia
12	33/11kV Philobari	0.268	Tea Estate Land	Philobari TE	0.268	Tea Estate Land	Philobari TE
13	33/11kV Powai	0.132	Tea Estate Land	Pawai TE	0.268	Tea Estate Land	Pawai TE
14	33/11kV Borhat	0.162	Government Land	APDCL	0.268	Tea Estate Land	Barasali TE
15	33/11kV Napuk	0.159	Private Land	Md. Asfik Ali	0.268	Private Land	Madhurjy A
16	33/11kV Gharamara	0.201	Private Land	Naresh Chandra Dev	0.266	Private Land	Sri Moti Saku Uran Late Naresh Chandra Deb
17	33/11 kV Namsung	0.201	Private Land	Jagat Ray Ghatwar	----	Site not yet finalized	
18	33/11kV Radhabari	0.258	Tea Estate Land	Radhabari TE	0.16	Tea Estate Land	Rangagorah TE
19	33/11kV Phulongani (Nahorbari)	0.408	Tea Estate Land	Naharbari TE	0.268	Tea Estate Land	Naharbari TE
20	33/11kV Doloujan (Dayang)	0.194	Tea Estate Land	Dayang TE	0.268	Tea Estate Land	Dayang TE

The REA checklist has been prepared for Chabua sub-station. The REA Checklist will be prepared once site is finalised for Podumani and approval obtained for Rangagora and Kaliapani.

2.3 Details of Site Visits

The consultant has undertaken site visit in month of July, August, September and November, 2016 and details of sub-projects visited is in Table 2. The site visit focused and tried to (a) check land possession status of sub-stations, understand the possible impacts due to development of approach road up-to identified sub-station site; (b) assess environmental suitability of the locations; (c) Contractor compliance to EMP at sub-project site in Table 2.; (d) advice PMU/IA on social and environmental safeguard compliance with ADB SPS 2009 (e) To check the requirements which needs to be considered for design and layout plan of Napuk substation; (f) To follow-up on route survey report of Chabua (Mahakali) and Gelapukhuri for 33kV and 11kV distribution line.

Table 2: Details of Sub-Project Inspected

S.No	Site Visit Date	Sub-stations visited	District
1	10 th -14 th July, 2016	Chabua (Mahakali), Dhola, Powai, Gelapukhuri, Gangabari, Baghjan and Phillobari	Tinsukia
2	18 th - 20 th August, 2016	Rakshyamari, Borsola and Singri, Bediti, Bindukuri and Rangagorah	Sonitpur and Golaghat
3	1 st -2 nd September, 2016	Rangagorah	Golaghat
4	14 th -16 th September, 2016	Napuk, Borhat and Ghoramara (Kaliapani)	Sibsagar and Dibrugarh
5	23 rd - 26 th November, 2016	Gelapukhuri, Gangabari, Chabua (Mahakali) Gharamara (Kaliapani), Napuk and Borhat	Tinsukia, Dibrugarh and sibsagar

The observations on safeguard activities are listed below:

- No labour license were available with the contractor.
- The contractor for package 1 has deployed E&S officer but the environmental safety officer was not available at any of the substation site during site visits. Contractor for package 2 is still to deploy the E&S Officer at sub-stations inspected.
- Drinking water storage/treatment arrangement for labour is inadequate and unhygienic.
- Earth filling requirements identified at sub-stations visited to bring the final level at par with surrounding ground level. Contractor is procuring aggregate and sand from quarry operator, but does not have copy of SPCB approval obtained by the quarry operator.
- The construction materials stacking at work site is not organized, thereby limiting working zone and with possibility of inducing accidents.
- It was observed that adequate quantity of personal Protective Equipment was not provided to workers by the contractor.
- The quality of shelter provided to the labour is of poor quality and cannot withstand the weather condition of the area. Further to prevent inflow of surface runoff during monsoon and to provide dry floor, the floor level of labour shelter should be increased by 1 to 1.5 feet above the local ground level.
- To ensure safety of public, the damage of existing road shall be maintained by the Contractor at their own cost due to transportation of their goods, equipment and materials.
- At the approach road to Doloujan (Dayang)-stations a school is present nearby thus a management plan will be required to follow for safety and prevention of any accident the contractor is still to submit the safety and management plan for material transportation
- The selected Napuk substation site is present adjacent to a petrol pump which will require additional care for preparing appropriate layout design of substation and addition safety measures needs to be taken during construction phase. The contractor is still to submit the layout design and safety management plan.
- No periodic health checkup reports were available during site visit. The contractor has not submitted any periodic health checkup reports
- Rote survey report collected for Chabua and Gelapukhuri is silent on stretched obstructed trees, structures and any other features likely to influence progress of work. In addition, the coordinates of poles are not provided.

- At Borhat substation the natural drainage for water was filled for transportation of transformer into the substation. The contractor informed that the filling will be removed after transportation of transformer into the substation. It has been done due to heavy weight of transformer. Contractor said that appropriate cross drainage measures will be provided to allow passage of water in drainage.

- **Snapshot of visits to identified site of Sub-Stations**



Photo 1: First Aid box provided at Bindukuri sub-station site.



Photo 2: Labour Camp at Rangagorah substation



Photo 3: Civil work construction for 33/11kV Chabua substation



Photo 4: Construction of approach road to Napuk sub-station site



Photo 5: Interacting with the Land owner and local people at Gharamara (Kaliapani) sub-station site.



Photo 6: Interacting with the Contractor at Borsola sub-station site



Photo 7: View of alignment of 33kV at Rakshyamari S/S



Photo 8: Gas provided to the Labour at Rakshyamari sub-station site



Photo 9: Labour Camp at Gelapukhuri sub-station site



Photo 10: Public consultation at Borhat Substation site.

2.4 Public Consultation:

2.4.1 Consultation with Local People

Public consultations with local people were conducted by the Social and Environmental consultant at Borhat and Rajgarh Rangoli village on 15th September 2016, & 25th November 2016, respectively.

The Rajgarh Rangoli village is the nearest village close to Kaliapani where shifting of sub-station is being considered from Ghoramora. The consultation conducted intended to understand perception on construction of new sub-station. The key findings after the consultation meeting are:

a. At Borhat S/S

- i. The land identified for sub-station belongs to Borhat Tea Estate.
- ii. Local People were engaged for both skill and unskilled labour works. A daily wage of Rs. 250/- and Rs. 500/- was given to unskilled and skill labour, respectively.
- iii. There is no record of flooding in Borhat areas during the rainy season and sub-stations location is safe. However, the local people inform on need to provide a small pipe at approach road that blocked the natural drain.
- iv. There is no major disturbance due to construction activities and the local people would extend any support that would be required.

b. At proposed Kaliapani S/S

- i. The land identified for the proposed Gharamara (Kaliapani) sub-station belongs to Raju Deb S/o Lt. Naresh Ch. Deb and Debaru Urang covering an area of 1.99 bigha.
- ii. Local People were happy for the sub-station construction and were looking forward for employment.
- iii. Both the owner requested the officials present in the consultation to inform on time by when their land would be acquired and requested to not delay in disbursement of their compensation.

2.4.2 Meeting with Official, Implementing Agency

During the reporting period at time of site visit meeting (Annexure-4) had happened with officials of

- a. Nazira Electrical Divisions under Sivasagar Electrical Circle;
- b. Tinsukia Electrical Division;
- c. Naharkatia Electrical sub-Division ;

The key findings of the consultation meetings are:

- The official of IA informed that the Napuk and Borhat sub-stations site has been handed over to the Contractor. The civil work has commenced at Borhat sub-station.
- The official of IA informed that the 33kV and 11kV Line alignment survey report of Gelapukhuri and Chabua sub-station has been submitted by the Sub-Divisional Engineer, Tinsukia Electrical sub-division –III to AGM, Tinsukia Electrical.
- The official of IA appraised that the proposed land for 33/11 kV Gharamara (Kaliapani) sub-station is finalized. The request for requisition amount for acquiring private land for 33/11kV Ghoramora (Kaliapani) sub-stations is forwarded to PIU, APDCL, Bijulee Bhawan. The required amount is yet to be released from PIU.

- The officials of field units of Implementing Agency suggested that during implementation stage of the project, there should be frequent interactions between field units and Executing Agency/Project Management Unit.

Details of Persons – Consultation Meeting

1. August 18th – 20th, 2016

A. Dhekiajuli/Tezpur Electrical Division.

- **Contractors and other**

- Ratul Mahanta – Project Manager, NECCON, Email:ratulmahanta1975@gmail.com, Ph: 9577153639
- Rupam Tamuli, Site Incharge, Rakshasmari, Ph: 9613424948
- Bhupen Sharma, NECCON, supervisor, Ph: 908592295

2. September, 14th – 16th, 2016

A. Nazira Electrical Circle

- Dwipendra Kr. Baruah, AGM, Nazira Electrical Division. Ph – 9435080537

B. Contractor and other

- Keshap Gogoi, Local People of Borhat.
- Julhaz Ahmed, Site Engineer., Geeta electrical, Ph: 9435459745

3. November 23rd – 26th, 2016

A. Tinsukia Electrical Division/Sub-division-III.

- A. Chetia, Assistant Manager, Tinsukia Electrical Division- 94351-25519.
- S. Swami, Assistant Manager, Tinsukia Electrical Division - 94351-34064
- A. K. Bordoloi, SDE, Tinsukia Electrical Sub-division – III, - 94350-37152
- Mr. Dharmeswar Deuri, JE, Tinsukia Electrical Sub-division – III.

B. Nazira Electrical Division

- **Contractor**

- Amlan Jyoti Borah, Site Incharge, NECCON, Borhat S/S ph- 9132279037.

C. Land Owner and other

- Madhuja Handique, Land Owner. Napuk S/S Ph – 9957746901
- Shamad Ali, Land Owner, Gangabari S/S.
- Ayesha Khatun, Land Owner nephew, Gangabari S/S.
- Mrinal Dohotia, Land Owner of Gelapukhuri S/S.

D. Naharkatia Electrical sub Division

- Dhiraj Gogoi, J.M, Naharkatia Electrical sub-division, Ph No. 9435706138
- Rajib Borah, J.M, Naharkatia Electrical sub-division,
- Ainentka Tehekap, Naharkatia Electrical sub-division,

E. Land Owner and others

- Debaru Urang, Land Owner Gharamara(Kaliapani) S/S Ph. No.-7896536368.
- Raju Deb, Son of Lt. Naresh Ch. Deb, Land Owner, Gharamara(Kaliapani) S/S
- Ph. No-9678633621
- Pallab Bokotial, Local Resident.
- Mukunda Bokotial, Local Resident.

2.5 Review Meetings:

During the reporting period there two review meetings were conducted on October 12th and December 28th, 2016. The Environmental and Social Consultant coordinated these review meetings and were attended by the official of PMU, PIU, and contractor. The review meeting were aimed to follow-up on compliance to safeguards requirement for the project. The key actions agreed during review meeting held in month of December, 2016 and tentative date are as below.

Pakage-1 : M/s NECCON Power & Infra Ltd.		
1.	Submitting of Environmental monitoring schedule.	January 10, 2017
2.	Submitting of Test/monitoring results.	January 31, 2017
3.	Submission of 4th QPR with sub-project level EMP compliance status.	January 10, 2017
4.	Contractor to provide alignment map for all distribution lines in Lot-1, Lot-2, and Lot-3.	January 21, 2017
5.	Contractor to provide map of route survey and its finding for all distribution lines in Lot-1, Lot-2, and Lot-3.	January 31, 2017
6.	Repairing of all established labour shelter and providing of basic amenities.	February 01, 2017
7.	Details of sources and quantities of earth utilised from each earth sources.	January 31, 2017
8.	Contractor to provide details of measures to allow free flow of water in natural drain at Napuk, Bedeti, Powai, Gangabari, Borhat&Philobari sub-stations.	January 31, 2017
9.	Design layout of Napuk sub-stations indicating the safety measures taken with respect to Petrol Pump located at close proximity	January 31, 2017
10.	Contractor to report and inform on measures taken to minimize impact to LKG School and hand pump located adjacent to access road to Doloujan sub-station	January 10, 2017
11.	Confirmation and submitting of signed EMP to PIU.	December 29,
12.	Contractor to submit measures to manage storm water drain in sub-station premise.	January 21, 2017
Package 2: M/s T&T Ltd		
13.	PIU to response to Contractor letter dated 30/11/2016 requesting for relaxation of environmental monitoring at sub-project level.	Needs to be reviewed.
14.	Submission of QPRs for 2nd and 3rd quarters of 2016 with sub-project level EMP compliance status.	3 rd week of January, 2017
15.	Inclusion of regulatory compliance/approval obtained status in the 4th QPR.	January 31, 2017
16.	Submission of Final route survey map and findings of all distribution lines.	3 rd week of January, 2017
17.	Mobilisation of E&S officer.	1 st February, 2017
18.	Confirmation and submitting of signed EMP to PIU.	December 29, 2016

Annexure 3

Grievance Redress Mechanism

APDCL does not have any specific Environment or Social Safeguards Policy regarding generation/distribution subprojects currently. SPS 2009 requires APDCL to establish a Grievance Redress Mechanism (GRM) having suitable grievance redress procedure to receive and facilitate resolution of affected peoples' concerns, complaints, and grievances about the subproject's environmental performance. The grievance mechanism will be scaled to the risks and adverse impacts on environment due the subproject type, size, type of area (sensitive area) and impacts. It should address affected people's concerns and complaints promptly, using a transparent process that is gender responsive, culturally appropriate, and readily accessible to all segments of the affected people at no costs and without retribution. This GRM will consist of a Grievance Redress Committee (GRC) headed by the Project Head. The committee will consist of the following:

- i. Project Head, APDCL
- ii. Sub District Magistrate/District Revenue Officer or their nominee
- iii. Representative of local Panchayat/Council
- iv. Representative Women representative of village/council
- v. Representative of EPC contractor
- vi. AGM of Environment and Social Management Unit (ESMU) at PMU or nominee

GRM will provide an effective approach for resolution of complaints and issues of the affected person/community. Project Management Unit (PMU) shall formulate procedures for implementing the GRM, while the PIU shall undertake GRM's initiatives that include procedures of taking/recording complaints, handling of on-the-spot resolution of minor problems, taking care of complainants and provisions of responses to distressed stakeholders etc. paying particular attention to the impacts on vulnerable groups.

Grievances of affected persons (APs) will first be brought to the attention of the Project head of the PIU. Grievances not redressed by the PIU will be brought to the Grievance Redress Committee (GRC) set up to monitor subproject Implementation for each subproject affected area. The GRC will determine the merit of each grievance, and resolve grievances within two weeks of receiving the complaint. The proposed mechanism does not impede access to the country's judicial or administrative remedies. The AP has the right to refer the grievances to appropriate courts of law if not satisfied with the redress at any stage of the process. The PIU will keep records of all grievances received including: contact details of complainant, date that the complaint was received, nature of grievance, agreed corrective actions and the date these were affected, and final outcome.

GRC committee has been constituted in Guwahati Zone and is in progress in remaining zones. During the reporting period, CPM, PIU, APDCL has issued a reminder letter to all concerned Chief Executive Officer to provide status on formation of Grievance Redressal Committee (GRC) in their respective circle.

Formation of GRC - Guwahati Zone

ASSAM POWER DISTRIBUTION COMPANY LIMITED (LAR)
OFFICE OF THE GENERAL MANAGER, GUWAHATI ZONE,
SIXMILE, GUWAHATI-22

Phone & fax no: 0361-2225268 E-mail ID: gm_gz@rediffmail.com Official website:

No: GM/GZ/APDCL(LAR)/T-22(ADB)/2016/

Date: 31.08.2016

Office Order

Sub: Formation of **Grievance Redressal Committee** for Tranche-4 Projects under APSEIP.
Ref: CPM(PIU)/APDCL/Tech-8/Tranche-4/2013-14/117, dtd.29 Dec'2015.

A Zonal Level **Grievance Redressal Committee** for Tranche-4 Projects under APSEIP is hereby constituted to redress grievances of affected people (AP), related to social and environmental issues under Mangaldai Electrical Circle.

1	GM, Guwahati Zone	Chairman	
2	CEO, MEC	Member	
3	Sri Udayaditya Gogoi, ACS, SDO(Civil), Bhergaon (Recommended by DC, Udalguri vide his letter No.UAI-5/2016/063916, dtd.11.05.2016 (Recommended by DC, Udalguri)	Member	9435043389
4	Circle officer	Not recommended	
	Project Manager, IA	Member	
	DGM, PMU	Member	
	AGM, PIU	Member	
	Land acquisition officer	Member	
	Affected person	Member	

Enclo: Letter from DC, Udalguri.

(B. K. Choudhury)

General Manager, Guwahati Zone
APDCL (LAR), Six Mile, Guwahati-781022

Memo No: GM/GZ/APDCL(LAR)/T-22(ADB)/2016/ 33(3)/3/14

Date: 31.08.2016

Copy to:-

1. The PS to MD, APDCL, Bijulee Bhawan, Paltanbazar, Guwahati-01 for kind perusal of MD, APDCL.
2. The CGM(PP&D), APDCL, LAR, Bijulee Bhawan, Paltanbazar, Guwahati-01 for favour of information.
3. The CPM(PIU), APDCL, LAR, Bijulee Bhawan, Paltanbazar, Guwahati-01 for favour of information.
4. The Director(PMU), APDCL, LAR, Bijulee Bhawan, Paltanbazar, Guwahati-01 for favour of information.
5. The Land acquisition Officer, Bijulee Bhawan, Paltanbazar.
6. The CEO, Mangaldai Elect. Circle, APDCL for necessary action.

General Manager, Guwahati Zone

Annexure 4

Implementation Status - Package - 1

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
LOT 1	New 2X5 MVA, 33/11kV Substations	7 Nos.	2x5 MVA Baghjan	2x5 MVA Baghjan		-	-	
			2x5 MVA Gangabari	2x5 MVA Gangabari		-	-	
			2x5 MVA Gelapukhuri	2x5 MVA Gelapukhuri		-	-	
			2x5 MVA Mahakali	2x5 MVA Mahakali	Site shifted to Chabua Tea Estate	-	-	Letter No. CPM (PIU)/APDCL/Tech - 8/Tranche 4/2013 - 14/115, Dated: 01-12-2015
			2x5 MVA Powai	2x5 MVA Powai		-	-	
			2x5 MVA Philobari	2x5 MVA Philobari		-	-	
			2x5 MVA Dhola	2x5 MVA Dhola		-	-	
	New 33kV Lines	108.35 km	26 km 33 kV line from 66/11 kV Rupai GSS to Baghjan S/S	26km 33kV line on GI STP with AAAC Wolf Conductor from 132/66/33kV Rupai GSS to Baghjan substation.	-	26	26	
			Terminal Equipments at Gangabari S/S, 12 km 33 kV line from Makum 33/11 kV S/S to Gangabari with GI STP	12km 33kV line on GI STP with AAAC Wolf Conductor from Makum 33/11kV substation to Gangabari substation with terminal equipment at Makum S/S.	-	12	12	
			Terminal Equipment at Gelapukhuri S/S, 10 km 33 kV line from Barguri 33/11 kV S/S to Gelapukhuri with GI	10km 33kV line on GI STP with AAAC Wolf Conductor from Barguri	-	10	10	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
			STP	33/11kV substation to Gelapukhuri substation with terminal Equipment at Barguri substation.				
			10 km 33 kV line from Napukhuri 33/11 kV S/S to Mahakali with steel tubular pole.	10km 33kV line on GI STP with AAAC Wolf Conductor from Napukhuri 33/11kV substation to Mahakali (Chabua) substation with terminal equipment at Napukuri substation.	-	10	10	
			4 km 33 kV line LILO at Tinsukia - Margherita line to Pawoi with steel tubular pole	4km 33kV line on GI STP with AAAC Wolf Conductor LILO on Tinsukia Margherita line to Powai substation.	-	4	4	
			25 km 33 kV line from Doomdooma 33/11 kV S/S to Philobari	25km 33kV line on GI STP with Wolf Conductor from Borsola 33/11kV substation to Philobari substation with terminal equipment at Borsola substation.	-	25	25	
			21 .35 km 33 kV line from Talap 33/11 kV S/S to Dhola	21.35km 33 kV line on GI STP with AAAC Wolf Conductor from Talap 33/11 kV substation to Dhola with terminal equipment at Talap substation.	-	21.35	21.35	
	New 11kV Lines	62km	15 km of associated 3x11 kV lines to cover six tea estates	3 nos. 11kV feeders of total length 15km on PSC	-	15	15	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
				poles with AAAC Raccoon Conductor to cover 6 Nos. Tea Estates.				
			8 km for 4x11 kV Feeders on PSC poles to cover 12 Tea Estate Factories	4 Nos. 11kV feeders of total length 8 km on PSC poles with AAAC Raccoon Conductor to cover 12 nos. Tea Estates	-	8	8	
			4x11 kV Feeders on PSC poles to cover 2 Tea Estates. Total length is 7 km	4 Nos. 11kV feeders of total length 7 km on PSC poles with AAAC Raccoon Conductor to cover 2 nos. Tea Estates.	-	7	7	
			3x1 1 kV Feeders on PSC poles to cover four Tea Estates. Total length is 7 km.	3 Nos. 11kV feeders of total length 7 km on PSC poles with AAAC Raccoon Conductor to cover 4 nos. Tea Estates.	-	7	7	
			2x11 kV Feeders from Powai 2x5 MVA, 33/11 kV substation to cover two Tea Estates. Total length is 8 km.	2 Nos.11kV feeders of total length 8 km on PSC poles with AAAC Raccoon Conductor to cover 2 nos. Tea Estates.	-	8	8	
			4x11 kV Feeders on PSC poles to cover three Tea Estates. Total length is 8 km.	4 Nos. 11kV Feeders of total length 8 km on PSC poles with AAAC Raccoon Conductor to cover 3 nos. Tea Estates.	-	8	8	
			4x11 kV Feeders on PSC poles to cover four Tea Estates. Total length is 9 km.	4 Nos.11kV Feeders of total length 9 km on PSC poles with AAAC Raccoon Conductor to cover 4 nos.	-	9	9	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
				Tea Estates.				
	Railway track crossing in the 33kV Line;	1 no.	Construction of one 33 kV Railway track crossing in the 33 kV line from 66/33 kV, Rupai GSS to Baghjan 2x5 MVA, 33/11 kV substation.	1 No, 33 kV line Railway track crossing of line from 66/33kV Rupai GSS to Bhagjan 2X5 MVA, 33/11kV substation.	-	-	-	
	Railway track crossing in the 11kV Line;	3 Nos.	One No. 11 kV Railway track crossing in the 11 kV feeder from Gangabari 2X5 MVA, 33/11 kV Sub Station	1 No. 11kV line Railway track crossing of 11 kV feeder from Gangabari 2X5 MVA, 33/11kV substation	-	-	-	
			One No. 11 kV Railway track crossing in the 11 kV feeder from Mahakali 2X5 MVA, 33/11 kV Sub Station	1 No. 11kV line Railway track crossing of 11kV feeder from Mahakali 2X5 MVA, 33/11kV substation	-	-	-	
			One No. 11 kV Railway track crossing in the 11 kV feeder from Pawoi 2X5 MVA, 33/11 kV Sub Station	1 No. 11kV line Railway track crossing of 11kV feeder from Powai 2X5 MVA, 33/11kV substation	-	-	-	
LOT 2	New 2X5 MVA, 33/11kV Substations	7 Nos.	2 x 5 MVA Ghoramara	2 x 5 MVA Ghoramara	Propose for shifting to KAliapani.	-	-	The case is being reviewed by PIU
			2 x 5 MVA Numchang	2 x 5 MVA Numchang	Shifted To Podumoni	-	-	Letter No. CPM (PIU)/APDCL/Tech - 8/Tranche 4/2013 - 14/122, Dated: 16-05-2016
			2 x 5 MVA Borhat	2 x 5 MVA Borhat		-	-	
			2 x 5 MVA Napuk	2 x 5 MVA Napuk		-	-	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
			2 x 5 MVA Dolujan	2 x 5 MVA Dolujan		-	-	
			2 x 5 MVA Pholongini	2 x 5 MVA Pholongini		-	-	
			2 x 5 MVA Radhabari	2 x 5 MVA Radhabari	Shifted to Rangagorah Tea Estate	-	-	Letter No. CPM (PIU)/APDCL/Tech - 8/Tranche 4/2013 - 14/128, Dated: 18-07-2016
	New 33kV Lines	119 km	15 km from Namrup substation and 10 km from Tingkhong substation with GI STP and Terminal Equipments at Namrup substation and Tingkhong substation	New 15km 33kV Line on GI STP with AAAC Wolf conductor form Namrup substation and 10km from Tingkhong substation to Gharamara (Kaliapani) substation with terminal equipment at Namrup substation &Tingkhong substation	-	25	25	
			15 km 33 kV feeding line for Borhat to LILO of NTPS-Salkathoni Feeder.	15km 33 kV line on GI STP with AAAC Wolf Conductor LILO on NTPS Salkathoni Line for Borhat substation.	-	15	15	
			3 km 33 kV, 1x Incoming & 1x Outgoing line.	3km 33kV D/C line on GI STP with AAAC Wolf Conductor LILO on NTPS - Sonari Line for Napuk substation.	-	3	3	
			25 km of 33 kV line from Golaghat GSS to Dayang S/S.	25km of 33kV line on GI STP with AAAC Wolf Conductor from Golaghat GSS (Tetelitol) to Doloujan substation with	-	25	25	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
				terminal equipment at Golaghat GSS (Tetelitol).				
			25 km of 33 kV line from Golaghat (Tetelitol) GSS to Nahaorbari S/S.	25km of 33kV line on GI STP with AAAC Wolf Conductor from Golaghat (Tetelitol) GSS to Pholongoni substation with terminal equipment at Golaghat GSS (Tetelitol).	-	25	25	
			26 km 33 kV line from fromLakhowjan GSS to Radhabari T.E.	26km 33kV line on GI STP with AAAC Wolf Conductor from Bokakhat (Lakhowjan) GSS to Radhabari T.E. with terminal equipment at Bokakhat GSS	-	26	26	
			10 km 33 kV line from Gelapukhuri to Namsung proposed 33/11 kV S/S	Not Present in BID document		10		Dropped at time of Bidding.
	New 11kV Lines	7 Nos.	1 5 km of associated 11 kV line.	11kV Feeder of total length 15km on PSC poles with AAAC Raccoon Conductor to cover neighboring Tea Estates.	-	-	-	
			3x1 1 kV Feeders on PSC poles to cover four Tea Estates. Total length is 7 km	11kV feeders of total length 7km on PSC poles with AAAC Raccoon Conductor to cover Tea estates.	-	-	-	
			1 8.6 km of associated 5x11 kV lines.	5 Nos.11kV Feeders of total length 18.6km on	-	-	-	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
				PSC poles with AAAC Raccoon Conductor to cover 7 nos. Tea Estates.				
			1 6.5 km of associated 4x11 kV lines.	4 Nos.11kV Feeders of total length 16.5km on PSC poles with AAAC Raccoon Conductor to cover 5 nos. Tea Estates.	-	-	-	
			25 km of associated 3x11 kV lines.	3 Nos.11kV Feeders of total length 25km on PSC poles with AAAC Raccoon Conductor to cover 8 nos. Tea Estates.	-	-	-	
			26 km of associated 3x11 kV lines.	3 Nos.11kV Feeders of total length 26km on PSC poles with AAAC Raccoon Conductor to cover 7 nos. Tea Estates.	-	-	-	
			25 km of associated 4x11 kV lines.	4 Nos.11kV Feeders of total length 25km on PSC poles with AAAC Raccoon Conductor to cover 2 nos. Tea Estates.	-	-	-	
	Railway track crossing in the 33kV Line;	2 Nos.	Construction of one Railway Track Crossing for 33 KV S/C Line from 132/33 KV Gargaon GSS to New 33/11 KV Bihubar substation	1 No, 33kV Railway Track Crossing for 33 KV S/C Line from 132/33 KV Gargaon GSS to New 33/11 KV Bihubar substation.	-	-	-	
			Construction of one 33 kV Railway track crossing in the 33 kV line from Golaghat(Tetelitol) GSS to Doloujan	1 No, 33kV line Railway track crossing for 33kV line from Golaghat	-	-	-	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
	Railway track crossing in the 11kV Line;	5 Nos.	2X5 MVA, 33/11 kV Sub Station	(Tetelitol) GSS to Doloujan 2X5 MVA, 33/11kV substation				
			Railway Track Crossing for 11 kV Lakuwa Tea Feeder from New 33/11 kV Maibela substation.	1 No Railway Track Crossing for 11 KV Lakuwa Tea Feeder from New 33/11kV Maibela substation.	-	-	-	
			Railway Track Crossing for 11 kV Muktabari Tea feeder from New 33/11 kV Borhat substation.	1 No Railway Track Crossing for 11 KV Muktabari Tea feeder from New 33/11kV Borhat Substation.	-	-	-	
			Railway Track Crossing for 11 kV Poitakhat - Sundar Feeder from 33/11 kV Borhat substation.	1 No Railway Track Crossing for 11 KV Poitakhat - Sundar Feeder from 33/11kV Borhat substation.	-	-	-	
			3 Nos. 11 kV Railway track crossing in the 3 Nos. 11 kV line from Doloujan 2X5 MVA, 33/11 kV substation.	3 Nos. 11kV line Railway track crossings for the 11kV line from Doloujan 2X5 MVA, 33/11 kV Sub Station.	-	-	-	
			1 No. of 11 kV Railway track crossing in the Doria T.E. 11 kV feeder from Radhabari T.E 2X5 MVA, 33/11 substation	1 No. 11kV line Railway track crossing for the Doria T.E. 11kV feeder from Radhabari T.E 2X5 MVA, 33/11 kV substation	-	-	-	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
	1 no. 33kV Line River crossing	1 No.	Construction of one 33 kV D/C River crossing with High Rise Pole (24.1 M) at Dhansiri river in the 33 kV line from Golaghat(Tetelitol) GSS to Doloujan 33/11 kV substation.	1 No, 33 kV D/C line River crossing with High Rise Pole (24.1m) at Dhansiri river for the 33kV line from Golaghat(Tetelitol) GSS to Doloujan 33/11kV substation.	-	-	-	
LOT 3	New 2X5 MVA, 33/11kV Substations	6 Nos.	2 x 5 MVA Borjuli	2 x 5 MVA Borjuli	-	-	-	
			2 x 5 MVA Bindukuri	2 x 5 MVA Bindukuri	-	-	-	
			2 x 5 MVA Rakshyamari	2 x 5 MVA Rakshyamari	-	-	-	
			2 x 5 MVA Borsala	2 x 5 MVA Borsala	-	-	-	
			2 x 5 MVA Bedeti	2 x 5 MVA Bedeti	-	-	-	
			2 x 5 MVA Singri	2 x 5 MVA Singri	-	-	-	
	New 33kV Lines	151 Km	20 km 33 kV D/C line to be loop-in loop-out (LILLO) between Depota Missamari line to Borjuli.	20km 33 kV D/C line on GI STP with AAAC Wolf Conductor for LILLO between DepotaMissamari to Borjuli line	-	20	20	
			16 km 33 kV line from Depota GSS to Bindukuri.	16km 33 kV line on GI STP with AAAC Wolf Conductor from Depota GSS to Bindukuri with terminal equipment at Depota GSS	-	16	16	
			35 km 33 kV line from Rowta 132/33 kV substation to Rakyshmari.	35km 33 kV line on GI STP with AAAC Wolf Conductor from Rowta GSS to Rakyshmari with terminal equipment at	-	35	35	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
				Rowta GSS.				
			40 km 33 kV line from Rowta 1 32/33 kV substation (S/S) to Borsola S/S.	40km 33 kV line on GI STP with AAAC Wolf Conductor from RowtaGSS to Borsola substation with terminal equipment at Rowta GSS.	-	40	40	
			16 km 33 kV line from Gohpur 1 32/33 kV Sub Station to Bedeti S/S	16km 33 kV line on GI STP with AAAC Wolf Conductor from Gohpur GSS to Bedeti substation with terminal equipment at Gohpur GSS.	-	16	16	
			24 km 33 kV line from Mizibari 33 kV SS to Singri.	24km 33 kV line on GI STP with AAAC Wolf Conductor from Mizibari 33kV substation to Singri substation with terminal equipment at Mizibari 33 kV substation.	-	24	24	
	New 11kV Lines	125 Km	4x11 kV feeders on PSC poles with a total length of 42 km.	4 Nos.11kV Feeders of total length 44km on PSC poles with AAAC Raccoon Conductor to cover 6 nos. Tea Estates	-	42	44	
			4x11 kV of feeders on PSC poles with a total length of 21 km.	4 Nos.11kV Feeders of total length 21 km on PSC poles with AAAC Raccoon Conductor to cover 3 nos. Tea Estates.	-	21	21	

Package Name	Sub-Project Description	Quantity	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Change in Scope	Length (km) as per IEE	Length (km) as per BID	Remark
			4x11 kV feeder on PSC poles. Total length is 15 km.	4 Nos.11kV Feeders of total length 15km on PSC poles with AAAC Raccoon Conductor to cover 3 nos. Tea Estates.	-	15	15	
			4x11 kV feeders on PSC poles on PSC poles. Total length is 20 km	4 Nos.11kV Feeders of total length 20km on PSC poles with AAAC Raccoon Conductor to cover 1 no. Tea Estates.	-	20	20	
			4x11 kV feeder on PSC poles on PSC poles. Total length is 15 km	4 Nos.11kV Feeders of total length 15km on PSC poles with AAAC Raccoon Conductor to cover 4 nos. Tea Estates.	-	15	15	
			4x11 kV feeder on PSC poles. Total length is 10 km.	4 Nos.11kV Feeders of total length 10km on PSC poles with AAAC Raccoon Conductor to cover 3 nos. Tea Estates.	-	10	10	
	Railway track crossing in the 33kV Line;	1 No.	Strengthening of river crossing span at Ghola river in between line at 33 kV Rowta - Kasubill line with rail pole.	1 no, 33kV strengthening line River crossing span at Ghola river for 33kV line between Rowta and Kasubil with rail poles.	-	-	-	

Annexure 5

Implementation Status - Package -2 (Components wise)

A- 33kV Lines for System Strengthening

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	(Implementation Status)
Dibrugarh Electrical Circle	New 33 kV lines required: 45 km Dibrugarh Electrical Circle 33 kV S/C feeder from Namrup to Rajgarh.	New 33kV, 45 km S/C Line from Namrup to Rajgarh on PSC Poles.	45	45	46.21	Increase in length by 1.21km	Route survey completed and drawing is under review in concern Electrical circle.
Tezpur Electrical Circle	New 20 km 33 kV feeder from B. Chariali 132/33 kV Grid substation to Monabari 33/11 kV substation without river crossing.	New 33kV, 20km S/C separate feeder from Pavoi 133/33kV S/S to Monabari S/S without river crossing.	20	20	16.8	Decrease in length by 3.2km	Route survey completed and drawing is under review in concern Electrical circle.
Mangaldoi Electrical Circle	Renovation of Rowta GSS - Kasubil 33 kV line from Mohanpur Village to Ambagaon Chowk of Rowta GSS to Ksubil. Length is 9.4 km	Upgrade Rowta GSS - Kasubil S/C 33 kV, 9.4km line from Mohanpur Village to Ambagaon Chowk	9.4	9.4	---		Route survey completed and drawing is under review in concern Electrical circle.
Mangaldoi Electrical Circle	Renovation of Udalguri - Kasubil 33 kV line from Gulma to Kasubil S/S. Length is 24 km	Upgrade Udalguri - Kasubil S/C 33 kV, 24km line from Gulma to Kasubill SS	24	24	---		Route survey completed and drawing is under review in concern Electrical circle.
Mangaldoi Electrical Circle	Construction of 33 kV interconnection line between 33 kV Rowta - Kasubill line and 33 kV Udalguri - Kasubill line with of AAC wolf(40 mtr span) 25 km 33 kV line with PSC pole with GI channel, cross arms, bracing angles etc. Length is 0.4 km	New 33 kV, 0.4km interconnection line between 33 kV Rowta - Kasubill line and 33 kV Udalguri - Kasubil line with PSC poles.	0.4	0.4	0.4	No change.	Route survey completed and drawing is under review in concern Electrical circle.

B- 11kV Lines for System Strengthening

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	Implementation Status
Dibrugarh Electrical Circle	New 30 km feeders (2 feeders of 15 km each) for 17 TEs under Rajgarh substation.	New 11kV Lines, 2 feeders of 15km each for 17 TEs under Rajgarh Substation.	2*15	2*15	12.34	Decrease in length by 17.66km.	Route survey is completed and is under review in CPM (PIU). In addition 10.12km length has been proposed to Aerial Bunch Cable line, in lieu of conductor (refer Component D of Package-2).
	New 14 km feeders (2 feeders of 7 km each) for 4 TEs under Hazelbank substation.	New Line 11 kV Lines, 2 feeders of 7km each for 4 TEs under Hazelbank Substation.	2*7	2*7	27.41	Increase in length by 13.41km.	Route survey completed and drawing is under review in concern Electrical circle.
	New 10 km feeder for 5 TEs under Beheating substation.	New 11 kV 10km Line for 5 TEs under Beheating Substation.	10	10	26.95	Increase in length by 16.95km.	Route survey completed and drawing is under review in concern Electrical circle.
Sivasagar Electrical Circle	New 2.5 km Mathura Tea feeder from New 33/11 kV Maibela substation.	New 11kV 2.5km Line for Mathura Tea Feeder from New 33/11 KV Maibela Substation.	2.5	2.5	4.74	Increase in length by 2.24km.	Route survey completed and drawing is under review in concern Electrical circle.
	New 14 km Lakuwa Tea feeder from New 33/11 kV Maibela substation.	New 11kV 14km Line for Lakuwa Tea Feeder from New 33/11 KV Maibela Substation.	14	14	12.815	Decrease in length by 1.19km.	Route survey completed and drawing is under review in concern Electrical circle.
	New 4 km Galeky to Sivbari TE Feeder feeding 3 TEs from Galekay substation	New 11kV, 4km Line Galeky to Sivbari TE Feeder (with combination of AB Cable and Bare Conductor) for feeding 3 TEs.	4	4	3.9	Decrease by 0.1km	Route survey completed and drawing is under review in concern Electrical circle.
	New 10 km Maduri Tea Feeder from 33/11 kV Namti substation	New 11 kV, 10km Line for Maduri Tea Feeder (with combination of AB Cable and Bare Conductor) from 33/11	10	10	4.12	Decrease in length by 5.8km.	Route survey completed and drawing is under review in concern Electrical circle.

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	Implementation Status
		KV Namti Substation.					
Golaghat Electrical Circle	New 19 km Tea feeder from Leteku 33/11 kV Sub Station to Bukial, Bijulee & RTS T.E.	New 11kV, 19km Tea Feeder from Leteku 33/11 kV Sub Station to feed power to Bukial, Bijulee & RTS T.E.	19	19	18.675	Decrease in length by 0.33km	Route survey completed and drawing is under review in CPM (PIU).
	New 20 km 11 kV Tea feeder from Leteku 33/11 kV Sub Station to Letekujan, Morongi, Dhanshree, NR Tea & Tanay Tea T.E.	New 11kV, 20km Tea Feeder from Leteku 33/11 kV Sub Station to feed power to Letekujan, Morongi, Dhanshree, N R Tea & Tanay Tea T.E.	20	20	12.81	Decrease in length by 7.19km.	Route survey completed and drawing is under review in CPM (PIU).
	New 20 km Tea feeder from Leteku 33/11 kV Sub Station to Dholaguri T.E., Sanjeev Tea Factory & Luhit Tea Factory.	New 11kV, 22km Tea Feeder from Leteku 33/11 kV Sub Station to feed power to Dholaguri T.E., Sanjeev Tea Factory & Luhit Tea Factory.	20	22	23.995	Increase in length by 3.99km.	Route survey completed and drawing is under review in CPM (PIU).
	New 24 km Tea feeder from Kamarbandha 33/11 kV Sub Station to Maheema, Borjan & Chakiting T.E.	New 11kV, 24km Tea Feeder from Kamarbandha 33/11 kV Sub Station to feed power to Maheema, Borjan & Chakiting T.E.	24	24	18.815	Decrease in length by 5.18km.	Route survey completed and drawing is under review in CPM (PIU).
	New 28 km Tea feeder from Barpathar 33/11 kV Sub Station to Pavajan, Bhagawan, Digholihola, Rengma, Tsangpul & Dhanshree T.E.	New 11kV 28km Tea Feeder from Barpathar 33/11 kV Sub Station to feed power to Pavajan, Bhagawan, Digholihola, Rengma, Tsangpul & Dhanshree T.E.	28	28	25.3	Decrease in length by 2.7km.	Route survey completed and drawing is under review in CPM (PIU).
	New 12 km Tea feeder from Bokakhat 33/11 kV Sub Station to Difoloo & Naharjan T.E.	New 11kV, 12km Tea Feeder from Bokakhat 33/11 kV Sub Station to feed power to Difoloo & Naharjan.	12	12	3.92	Decrease in length by 8.1km.	Route survey completed and drawing is under review in CPM (PIU).
	New 11 km Tea feeder from Kohora 33/11 kV Sub Station to Methoni & Hatikhuli T.E.	New 11kV, 11km Tea Feeder from Kohora 33/11 kV Sub Station to feed power to Methoni & Hatikhuli T.E.	11	11	18.925	Increase in 7.93km.	Route survey completed and drawing is under review in CPM (PIU).

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	Implementation Status
Golaghat at Electrical Circle	New 5kms Tea Feeder from Usha 33/11 kV Sub Station to Usha T.E.	New 11kV, 5km Tea Feeder from Usha 33/11 kV Sub Station to feed power to Usha T.E.	5	5	0	Dropped from scope of work.	Work completed under deposit work. The same work will be undertaken at different location. Identification of new location is pending.
	New 15 km Tea feeders to Halmira, North Goronga&Hautely T.E. from Golaghat -II, 2X 5 MVA, 33/11 kV substation (proposed under ADB, Tranche -3).	New 11kV, 15km (total length) tea Feeders to Halmira, North Goronga&Hautely T.E. from Golaghat -II, 2X 5 MVA, 33/11kV substation (proposed under ADB, Tranche -3).	15	15	13.93	Decrease in length by 1.1km.	Route survey completed and drawing is under review in CPM (PIU).
Tinsukia Electrical Circle	New 19 km feeder from Tengpani 33/11 kV S/S to feed 4 Nos TE	New 11kV Lines of total length 12km from Tengpani 33/11 kV Substation to feed 4 nos. T.E.	19	12	13.900	Increase in length by 1.9km.	Route survey completed and drawing is under review in concern Electrical circle.
		New 11kV Lines of total length 7km from Tengpani 33/11 kV Substation to feed 4 nos. T.E.		7	6.300	Decrease in length by 0.7km.	Route survey completed and drawing is under review in concern Electrical circle.
	New 6 km feeder from Makum 33/11 kV S/S to feed 4 Nos TE.	New 11kV Lines of total length 6km from Makum 33/11 kV Sub Station to feed 4 nos. T.E.	6	6	4.5	Decrease in length by 1.5km	Route survey completed and drawing is under review in concern Electrical circle.
	New 12 km feeder from Chabua 33/11 kV S/S to feed 2 Nos TE	New 11kV Lines of total length 12km from Chabua 33/11 kV Sub Station to feed 2 nos. T.E.	12	12	12.1	No change	Route survey completed and drawing is under review in concern Electrical circle.
	New 8 km feeder from Makum 33/11 kV S/S to Tila to feed 5 Nos TE	New 11kV Lines of total length 8km from Makum 33/11 kV Sub Station to Tila to feed 5 nos. T.E.	8	8	0	Dropped from scope of works.	No such place Exists in Makum as information provided by concern official.
	New 6 km feeder from Lidu 33/11 kV S/S to Tirap feed to feed Coal India Ltd 2 Nos TE	New 11kV Line of length 2km from Ledu 33/11 kV Sub Station to Tirap to feed Coal	6	2	5.65	Decrease of length by 0.35km	Route survey completed and drawing is under review in concern

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	Implementation Status
		India					Electrical circle.
Jorhat Electrical Circle	New 3 km feeder from 33/11 kV Gatanga S/S to GatangaTE.	New 11kV, 3km Tea Feeder from 33/11 kV Gatanga S/S to GatangaTE.	3	3	2.3	Decrease of length by 0.7km	Route survey completed and drawing is under review in CPM (PIU).
	New 10 km feeder from 33/11 kV Gatanga S/S to SangsowaTE.	New 11kV, 10km Tea Feeder from 33/11 kV Gatanga S/S to SangsowaTE.	10	10	6.9	Decrease of length by 3.1km	Route survey completed and drawing is under review in CPM (PIU).
	New 12 km feeder from 33/11 kV Gatanga S/S to PanbariTE.	New 11kV, 12km Tea Feeder from 33/11 kV Gatanga S/S to PanbariTE.	12	12	7.8	Decrease of length by 4.2km	Route survey completed and drawing is under review in CPM (PIU).
	New 5 km feeder from 33/11 kV Pulibor S/S to LahpohiaTE.	New 11kV, 5km Tea Feeder from 33/11 kV Pulibor S/S to LahpohiaTE.	5	5	3.5	Decrease of length by 1.5km	Route survey completed and drawing is under review in concern Electrical circle
	New 7 km feeder from 33/11 kV Pulibor S/S to Indo Assam TE.	New 11kV, 7km Tea Feeder from 33/11 kV Pulibor S/S to Indo Assam TE.	7	7	3.2	Decrease of length by 3.8km	Route survey completed and drawing is under review in concern Electrical circle
	New 6 km feeder from 33/11 kV Pulibor S/S to PurnonimatTE.	New 11kV, 6km Tea Feeder from 33/11 kV Pulibor S/S to PurnonimatTE.	6	6	5.7	Decrease of length by 0.3km	Route survey completed and drawing is under review in concern Electrical circle
	New 5 km feeder from 33/11 kV Pulibor S/S to SoruchoraiTE.	New 11kV, 5km Tea Feeder from 33/11 kV Pulibor S/S to SoruchoraiTE.	5	5	4.9	No change	Route survey completed and drawing is under review in concern Electrical circle.
	New 4 km feeder from 33/11 kV Borholla S/S to BorhollaTE.	New 11kV, 4km Tea Feeder from 33/11 kV Borholla S/S to BorhollaTE.	4	4	2.2	Decrease of length by 1.8km	Route survey completed and drawing is under review in CPM (PIU).
	New 7 km feeder for DholiTE and BokahollaTE including 0.6 km composite line from 33/11 kV Titabor S/S.	New 11kV, 7km Tea Feeder from DholiTE and BokahollaTE including 0.6 km composite line from 33/11 kV Titabor SS.	7.6	7.6	9.2	Increase in length by 1.6km	Route survey completed and drawing is under review in CPM (PIU).
	New 12 km feeder from 33/11 kV	New 11kV, 12km Tea Feeder	12	12	9.2	Decrease	Route survey completed

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	Implementation Status
	Nakachari S/S to Kakajan TE.	from 33/11 kV Nakachari S/S to Kakajan TE				of length by 2.8km	and drawing is under review in CPM (PIU).
Tezpur Electrical Circle	New 13 km 11 kV feeder from Bargang substation to Bedeti (For separation of Tea Industry from RGGVY feeder).	New 11kV, 14km separate Feeder from Bargang S/S to Bedeti (For separation of Tea Industry from RGGVY feeder).	13	14	6.9	Decrease of length by 6.1km	Location for Bedeti is changed to Barang TE as Bedeti will be connected to New 33/11kV Bedeti Substation.
	New 5 km 11 kV feeder from Circuit House Tiniali to Panibharal (For separation of town feeder from RGGVY feeder).	New 11kV, 4km Feeder from Circuit Houser Tiniali to Panibharal (For separation of town feeder from RGGVY feeder).	5	4	0	Dropped from scope of works.	Work completed under R-APDRP project.
	New 8 km 11 kV feeder from Sootea 33/11 kV substation to Monai (For separation of Tea Industry).	New 11kV, 8km Feeder from 33/11kV Sootea S/S to Monai (For separation of Tea Industry).	8	8	8.85	Increase in length by 0.85km.	Route survey completed and drawing is under review in concern Electrical circle.
Bongaigaon Electrical Circle	New 1 km 11 kV line at Bongaigaon town from Birjhora 33/11 kV substation.	New 11kV, 1 km Line to Bongaigaon town from Birjhora 33/11kV SS.	1	1	1.3	Increase in length by 0.3km.	Route survey completed and drawing is under review in CPM (PIU).
	New 1 km 11 kV line from Chapraguri to Dhaligaon.	New 11kV, 1 km Line from Chapraguri to Dhaligaon.	1	1	1.080	No change.	Route survey completed and drawing is under review in CPM (PIU).
	New 1 km 11 kV feeder for Bongaigaon Industrial Estate (New Bongaigaon).	New 11kV, 1 km separate Feeder for Bongaigaon Industrial Estate (New Bongaigaon).	1	1	1.050	No change.	Route survey completed and drawing is under review in CPM (PIU).
	New 1 km 11 kV line at Chitka – Rabhapara	New 11kV, 1 km Line at Chitka- Rabhapara.	1	1	0.800	Decrease in length by 0.2km.	Route survey completed and drawing is under review in CPM (PIU).
Barpeta Electrical Circle	New 11 km 11 kV line along with terminal equipment at 33/11 kV Bhakatpara substation.	New 11kV, 11km Line at 33/11kV Bhakatpara SS.	11	11	11.7	Increase in length by 0.7km.	Route survey completed and drawing is under review in CPM (PIU).
	New 5 km 11 kV line along with terminal equipment at 33/11 kV Barpeta Road substation to Barpeta Road Bazar.	New 11kV, 5km Line at 33/11kV Barpeta Road S/S to Barpeta Road Bazar.	5	5	5.9	Increase in length by 0.9km.	Route survey completed and drawing is under review in CPM (PIU).

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	Implementation Status
	New 5 km 11 kV line from Howly substation to Howly Bazar.	New 11kV, 5km line from Howly S/S to Howly Bazar.	5	5	5	No change.	Route survey completed and drawing is under review in CPM (PIU).

C - Substation Augmentation

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route survey (km)	Change in Project Scope	Implementation Status
Sibsagar Electrical Circle	Galeky 33/11 kV substation from 2x2.5MVA to 2x5MVA: Existing 2x2.5MVA Transformers are to be replaced with 2x5MVA Transformers	Existing 2x2.5 MVA Transformer to 2X5 MVA Transformer at 33/11kV Galeky substation in Sibsagar electrical circle.	–	–			Survey is completed. Survey report is under review in CPM (PIU)
Sibsagar Electrical Circle	Namti 33/11 kV substation from 1x2.5 + 1x1.6 MVA to 1x 2.5 MVA + 1x5 MVA: Existing 1x2.5 MVA + 1 x1.6 MVA Transformers are to be replaced with to 1x 2.5 MVA + 1x5 MVA Transformers	Existing 1x2.5 MVA + 1X1.6MVA Transformers to 1X2.5 MVA +1X5 MVA Transformers at 33/11kV Namti substation in Sibsagar electrical circle.	–	–			Survey is completed. Survey report is under review in CPM (PIU)
Dibrugarh Electrical Circle	Rajgarh 33/11 KV substation from 1X2.5 MVA + 1 X 5MVA to 2 X 5 MVA with provision for terminal equipment of Namrup - Rajgarh Line	Existing 1x2.5 MVA + 1X5 MVA Transformers to 2X5 MVA Transformer with provision of Terminal equipment for Namrup-Rajgarh Line at 33/11kV Rajgarh substation Dibrugarh electrical circle.	–	–			Survey is completed. Survey report is under review in CPM (PIU)
Tezpur Electrical Circle	Jamuguri 33/11 kV substation from 2x3.15MVA to 2x5MVA: Existing 2x3.15MVA	Existing 2x3.15 MVA Transformers to 2X5 MVA Transformers at 33/11kV Jamuguri substation in Tezpur electrical circle.	–	–			Survey is completed and is under review in Tezpur electrical circle.
Lakhimpur Electrical Circle	Chilapathar 33/11 kV substation from 1x2.5MVA to 1x5MVA: Existing 1x2.5MVA Transformer is to be replaced with 1x5MVA Transformer.	Existing 1x2.5 MVA Transformer to 2X5 MVA Transformers at 33/11kV Chilapathar substation in Lakhimpur electrical circle.	–	–			No Scope of Work. Work Completed under RGGPY XII plan
Rangia Electrical Circle	Kamalpur 33/11 kV substation from 2x2.5MVA to 2x5MVA: Existing 2x2.5MVA Transformers are to be replaced with new 2x5MVA Transformers.	Existing 2x2.5 MVA Transformers to 2X5 MVA Transformers at 33/11kV Kamalpur substation in Rangia electrical circle.	–	–			Survey is completed. Survey report is under review in CPM (PIU)

D - 11kV Arial Bunched Cables (ABC)

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route Survey (km)	Change in Project Scope	Implementation Status
Sivsagar Electrical Circle	New 4 km Galeky to Sivbari TE Feeder feeding 3 TEs from Galekay substation	New 11kV, 5km ABC Line Galeky to Sivbari TE Feeder for feeding 3 TEs.	4	5	5	Increase in length by 1km.	Route survey is completed and is under review in concern electrical circle.
	New 10 km Maduri Tea Feeder from 33/11 kV Namti substation	New 11kV, 5km ABC Line Maduri Tea Feeder from 33/11 KV Namti Substation.	10	5	5.2	Decrease in length by 4.8km.	Route survey is completed and is under review in concern electrical circle.
	–	–	0	0	0.3	11kV line for Mathura Tea Estate	Extra ABC line under line No.4 (Line No: 4 i.e. 11kv line for Mathura tea feeder from new 33/11kV Maibela substation) Route survey is completed and is under review in concern electrical circle.
Dibrugarg Electrical Circle	–	–	0	0	10.12	11kV line for Azizbag,Kafe ucha,Tinali,G onguti,Kend droguri,Real, Assam,Diksam,Dirai,Amul yabari Tea Estate	Extra ABC line under Line No: 1 i.e. 11kv line for 17 TE under Rajgarh substation. Route survey is completed and is under review in CPM (PIU). (refer Component B of Package-2)
Golaghat Electrical Circle	New 6km 11 kV lines with AB Cable in the alignment of 3 Nos. 11 kV feeders from Dayang, 2X5 MVA, 33/11 kV Sub Station	New 11kV, 6km ABC Lines comprising 3 nos. Feeders from Doloujan, 2X5 MVA, 33/11 kV Substation.	6	6	--		Survey not yet completed.
Golaghat Electrical Circle	New 6km 11 kV lines with AB Cable in the alignment of 3 Nos 11 kV feeders from Nahorbari, 2X5 MVA, 33/11 kV Sub Station.	New 11kV, 6km ABC Lines comprising 3 nos. Feeders from Pholongoni, 2X5 MVA, 33/11 kV Substation.	6	6	19.535	Increase in length by 13.5km.	Route survey is completed and is under review in CPM (PIU)
Golaghat Electrical Circle	New 4km 11 kV lines with AB Cable in the alignment of 4 Nos 11 kV feeders from Radhabari T.E., 2X5 MVA, 33/11 kV Sub	New 11kV, 4km ABC Line comprising 4 nos. 11 kV feeders from Radhabari T.E., 2X5 MVA, 33/11 kV Sub Station.	4	4	7.338	Increase in length by 3.338km.	Route survey is completed and is under review in CPM (PIU)

Electrical Circle	Name of sub-project as per IEE	Name of sub-project as per BID Docs.	Length (km) as per IEE	Length (km) as per BID	Length as per Actual Route Survey (km)	Change in Project Scope	Implementation Status
	Station.						
Guwahati Electrical Circle	—	Conversion of 11kV line by ABC cable at lalungaon	—	—	0		Survey was undertaken and it has been found out that work is not feasible.
Guwahati electrical circle	—	Conversion of 11kV line by ABC cable at Jowaharnagar to patharkuchi	—	—	0		Survey was undertaken and it has been found out that work is not feasible.

F – R&M works of 33/11kV Sub-stations

A. CIVIL WORKS

Electrical Circle	Name of sub-station	Activities in IEE
Kokrajhar Electrical Circle	Basugaon 33/11 kV substation	<ul style="list-style-type: none"> Repairing of Control Room Building including footpath at Basugaon 33/11 kV substation. Raising of low site by earth filling at back site of Control Room Building at Basugaon 33/11 kV substation.
	Ambagan 33/11 kV substation	<ul style="list-style-type: none"> Switchyard fencing by PCC wall (below G.L) due to raising of height at Ambagan 33/11 kV substation complex at Dhubri. Construction of boundary wall at South side of Ambagan 33/11 kV substation, APDCL Dhubri. Supply & Spreading of 32 mm river gravel at 33/11 kV switchyard area at Ambagan, Dhubri. Raising of low structure foundation by brick due to earth filling inside switchyard at Ambagan 33/11 kV substation complex at Dhubri. Construction of Ramp (side and back) of switchyard fencing at Ambagan 33/11 kV substation complex at Dhubri. Construction of steel gates (front & back) of switchyard fencing at Ambagan 33/11 kV substation complex at Dhubri. Raising of low side by earth filling inside switchyard area at Ambagan. Construction of outlet new drain in front and south side of CB at Ambagan 33/11 kV substation complex, APDCL Dhubri. Painting of switchyard fencing at Dhubri
	Gauripur 33/11 kV substation.	<ul style="list-style-type: none"> Construction of boundary wall (damage portion) including earth filling at West side of Control Room Building at Gauripur 33/11 kV substation.
	Agomani 33/11 kV substation	<ul style="list-style-type: none"> Reconstruction of the damage boundary wall of 33/11 kV substation at Agomani.
	Bilasipara 33/11 kV substation	<ul style="list-style-type: none"> Reconstruction of damage boundary wall at 33/11 kV substation at Bilasipara
Bongaigaon Electrical Circle	Bhalukdubi 33/11 kV substation	<ul style="list-style-type: none"> Providing internal and external water supply, Deep tube well at Bhalukdubi 33/11 kV substation. Civil works of Bhalukdubi 33/11 kV substation including internal electrification.
	Mornoi 33/11 kV substation	<ul style="list-style-type: none"> Providing internal and external water supply, Deep tube well at Mornoi 33/11 kV substation.
	Balijana 33/11 kV substation	<ul style="list-style-type: none"> Repairing of Control Room Building including electrification work at Balijana 33/11 kV substation.
Guwahati Electrical Circle	Zoo Road 33/11 kV substation	<ul style="list-style-type: none"> Construction of Internal Boundary Wall at Zoo Road 33/11 kV substation. Construction of PCC base on stone soiling at Zoo Road 33/11 kV substation. Construction of Boundary Wall in the western side of Zoo Road 33/11 kV substation.
	Sonapur 33/11 kV substation.	<ul style="list-style-type: none"> Renovation of Control Room Building at Sonapur 33/11 kV substation.
	Garbhanga 33/11 kV substation	<ul style="list-style-type: none"> Providing boundary wall and gate at Garbhanga 33/11 kV substation
	Paltan Bazar 33/11 kV	<ul style="list-style-type: none"> Construction of approach road with repairing & renovation of Control Room Building at Paltan Bazar 33/11 kV substation Construction of boundary wall including repairing & renovation of old damaged wall around Paltan Bazar 33/11 kV substation Switchyard.
Tezpur Electrical Circle	Bargang 33/11 kV substation.	<ul style="list-style-type: none"> Construction of well foundation with hum pipe for 33 kV Bargang-Monabari feeder river crossing. Construction of boundary wall at Bargang 33/11 kV substation.

Electrical Circle	Name of sub-station	Activities in IEE
Lakhimpur Electrical Circle	Pavoi 33/11 kV substation	<ul style="list-style-type: none"> Construction of boundary wall at Pavoi 33/11 kV substation.
	Chariali 33/11 kV substation	<ul style="list-style-type: none"> Construction of boundary wall at Chariali 33/11 kV substation.
	Narayanpur 33/11 kV substation	<ul style="list-style-type: none"> Water supply and construction of water filter for Narayanpur 33/11 kV substation
	Jonai 33/11 kV substation.	<ul style="list-style-type: none"> Water supply and construction of water filter for Jonai 33/11 kV substation.
Cachar Electrical Circle	MaliniBeel 33/11 kV substation.	<ul style="list-style-type: none"> Construction of (Remaining portion) of retaining wall along with boundary fencing by the West, South & North side of MaliniBeel 33/11 kV substation. Earth filling (Remaining portion) within MaliniBeel 33/11 kV substation. Construction of approach road and cement concreting over the open space of switchyard for easy movement of machinery at MaliniBeel 33/11 kV substation. Construction of heavy duty iron gate of MaliniBeel 33/11 kV substation
	Srikona 33/11 kV substation.	<ul style="list-style-type: none"> Construction of boundary wall around the Srikona 33/11 kV substation.
	Meharpur 33/11 kV substation	<ul style="list-style-type: none"> Renovation of boundary wall of divisional store as well as boundary fencing of switchyard of Meharpur 33/11 kV substation.
	Udharbond 33/11 kV substation.	<ul style="list-style-type: none"> Repairing of CC road and WBM road of Udharbond 33/11 kV substation. Repairing of Control Room Building of Udharbond 33/11 kV substation.
	Kalain 33/11 kV substation	<ul style="list-style-type: none"> Construction of approach road from PWD road to switchyard of Kalain 33/11 kV substation.
	Katigora 33/11 kV substation	<ul style="list-style-type: none"> Construction of approach road of Katigora 33/11 kV substation Switchyard gravelling of Katigora 33/11 kV substation. Earth work in switchyard of Katigora 33/11 kV substation. Construction of boundary wall of Katigora 33/11 kV substation. Construction of approach road to Control Room Building at Katigora 33/11 kV substation. Earth filling at Katigora 33/11 kV substation area.
Dibrugarh Electrical Circle:	Bordubi 33/11 kV substation.	<ul style="list-style-type: none"> Construction of approach road to the newly upgraded Bordubi 33/11 kV substation. Construction of boundary wall for upgraded Bordubi 33/11 kV substation. Renovation/repairing of old Control Room Building at Bordubi 33/11 kV substation.
	Tengakhat 33/11 kV substation	<ul style="list-style-type: none"> Earth filling for upgrade Tengakhat 33/11 kV substation under Dibrugarh Electrical Circle.
Tinsukia Electrical Circle	Makum 33/11 kV substation	<ul style="list-style-type: none"> Repairing of Control Room Building at Makum 33/11 kV substation. Construction of boundary wall for upgraded Makum 33/11 kV substation. Construction of approach road to the newly upgraded Makum 33/11 kV substation.
	Chabua 33/11 kV substation.	<ul style="list-style-type: none"> Repairing of Control Room Building at Chabua 33/11 kV substation. Construction of approach road to the newly upgraded Chabua 33/11 kV substation.
	Dinjan 33/11 kV substation.	<ul style="list-style-type: none"> Construction of boundary wall for upgraded Dinjan 33/11 kV substation.
	Magherita 33/11 kV substation.	<ul style="list-style-type: none"> Construction of boundary wall for upgraded Magherita 33/11 kV substation.
	Doomdooma 33/11 kV substation.	<ul style="list-style-type: none"> Construction of boundary wall for upgraded Doomdooma 33/11 kV substation.
	Tinsukia 33/11 kV substation	<ul style="list-style-type: none"> Construction of approach road to the newly upgraded Tinsukia 33/11 kV substation.
	Digboi 33/11 kV substation.	<ul style="list-style-type: none"> Construction of approach road to the newly upgraded Digboi 33/11 kV substation.

Electrical Circle	Name of sub-station	Activities in IEE
Jorhat Electrical Circle: Civil Works	Bokakhat 33/11 kV substation	<ul style="list-style-type: none"> Repairing of Control Room Building at Bokakhat 33/11 kV substation
	Kamarbandha 33/11 kV substation	<ul style="list-style-type: none"> Construction of boundary wall at Kamarbandha 33/11 kV substation. Construction of security fencing at Kamarbandha 33/11 kV substation.
Sivasagar Electrical Circle	Dimow 33/11 kV substation	<ul style="list-style-type: none"> Construction of boundary wall at Dimow 33/11 kV substation.
	Geleki 33/11 kV substation	<ul style="list-style-type: none"> Construction of boundary wall at Geleki 33/11 kV substation Construction of approach road to Geleki 33/11 kV substation
	Sonari 33/11 kV substation	<ul style="list-style-type: none"> Construction of boundary wall at Sonari 33/11 kV substation Construction of approach road to Sonari 33/11 kV substation.
	Phukan Nagar 33/11 kV substation	<ul style="list-style-type: none"> Construction of boundary wall at Phukan Nagar 33/11 kV substation. Construction of approach road to Phukan Nagar 33/11 kV substation.

Findings: The sub-projects of civil works under R&M components have been dropped in final DPR due to:

High project cost, difficulty in generating BOQ rates for different types of small items, and decision to carry out these activities under separate state funding. These activities listed in IEE are indicated in the draft DPR, during which the IEE was prepared. The Final DPR has excluded the items and hence, above listed civil activities have been dropped from ADB's financing.

B. Electrical Works

Electrical Circle	Name of Substation	Activities as per IEE	Activities as per Bid document	Remarks
Mangaldoi Electrical Circle	Kharupetia 33/11 kV substation	9-unit 11 kV indoor VCB at Kharupetia 33/11 kV substation	Erection, testing & commissioning of 9 Unit 11kV indoor VCB	Survey Completed. Drawing is under review for approval in Mangaldoi electrical circle.
Mangaldoi Electrical Circle	Rowta - Kasubill line and Udalguri - Kasubill Line	Construction of Switching facility for interconnection of Rowta - Kasubill line and Udalguri - Kasubill Line	Switching facility for interconnection of 33kV Rowta - Kasubill line and 33kV Udalguri - Kasubill Line	Survey Completed. Drawing is under review for approval in Mangaldoi electrical circle
Nagaon Electrical Circle	Kathiatoli 33/11 kV substation	R&M of Kathiatoli 33/11 kV substation under Hojai Electrical Division.	33 kV VCB, 11kV 9-unit panel, 150 AH, 110 Volts Battery Bank complete,	Survey Completed. Drawing is under review in CPM (PIU) for approval.
Nagaon Electrical Circle	Kampur 33/11 kV substation	R&M of Kampur 33/11 kV substation under Hojai Electrical Division.	33 kV VCB, 33 kV Transformer Panel, 33kV Feeder Panel and 11kV 9-unit panel.	Survey Completed. Drawing is under review in CPM (PIU) for approval.
Nagaon Electrical Circle	Burapahar 33/11 kV substation	R&M of Burapahar 33/11 kV substation under Nagaon Electrical Division.	11kV 9-unit panel, 150 AH, 110 Volts Battery Bank complete.	Survey Completed. Survey report is under review in CPM (PIU) for approval.
Morigaon Electrical Circle	Moloibari 33/11 kV substation	R&M of Moloibari 33/11 kV substation under Morigaon Electrical Division.	33kV VCB, 33kV Transformer Panel, 33kV feeder panel, 11kV 9-unit panel, 11kV GOAB, 11kV LA, 150 AH, 110 Volts Battery Bank complete	Survey Completed. Survey report is under review in CPM (PIU) for approval.
Tinsukia Electrical Circle	Parbotria 33/11 kV substation.	33 kV Outdoor VCB for Transformer	33kV Outdoor VCB and 33kV Transformer panel.	Survey completed and approval is under review in CPM (PIU)
Tinsukia Electrical Circle	Borguri 33/11 kV substation.	33 kV Outdoor VCB for Transformer	33kV Outdoor VCB and 33kV Transformer panel	This work is not required.

Electrical Circle	Name of Substation	Activities as per IEE	Activities as per Bid document	Remarks
Tinsukia Electrical Circle	Chabua 33/11 kV substation.	33 kV Outdoor VCB for Transformer Battery Charger with Battery Bank	33kV Outdoor VCB, Transformer panel, 150 AH, 110 V battery bank & battery charger complete, 11kV indoor panel (9 units).	Work is under progress.
Tinsukia Electrical Circle	Dinjan 33/11 kV substation.	33 kV Outdoor VCB for Transformer	33kV Outdoor VCB and Transformer panel.	Survey completed and approval is under review in CPM(PIU)
Tinsukia Electrical Circle	Borsola 33/11 kV substation	Battery Charger with Battery Bank	_____	This subproject was not mentioned in Bid document and no work is being undertaken in this sub-project.
Tinsukia Electrical Circle	Doomdooa 33/11 kV substation	-----	Battery charger with battery bank complete.	Survey Completed. No civil work related to electrical works is required.
Sivasagar Electrical Circle	Namti Chari Ali 33/11 kV substation	Replacement of Transformer Breaker at Namti Chari Ali 33/11 kV substation.	Erection, testing & commissioning of 33 kV VCB for transformer including laying and termination of power and control Cables as required with associated structure and foundation Erection, testing & commissioning of 33kV Transformer panel	Survey completed. No civil work related to electrical works is required.
Sivasagar Electrical Circle	Phukon Nagar 33/11 kV substation	Replacement of Gaurisagar 33kV feeder Breaker under Phukon Nagar 33/11 kV substation.	33kV Outdoor VCB and 33kV Feeder panel at Phukan Nagar substation	As per the survey there was no scope of work at Phukan Nagar 33/11kV substation so the same work is undertaken at Gaurisagar 33/11kV substation and same is surveyed. SLD approved
Sivasagar Electrical Circle	Geleky 33/11 kV substation	For commissioning of 33 kV Transformer Bay under Geleky 33/11 kV substation.	For 33kV Transformer bay.	
Sivasagar Electrical Circle	Salkathoni 33/11 kV substation.	For replacement of 33 kV PT under Salkathoni 33/11 kV substation.	33kV PT	Survey completed. Only 3 no of PT are required. Survey report is under review.
Sivasagar Electrical Circle	Nazira 33/11 kV substation.	For commissioning of Transformer Bay under Nazira 33/11 kV substation.	For 33kV Transformer bay.	Survey is completed and is under review in CPM (PIU).
Dibrugarh Electrical Circle	Hazelbank 33/11 kV substation	Equipment required at 33/11 kV Hazelbank substation.	Equipments required at Hazelbank SS for taking out 11 kV Dedicated Tea Feeder.	Civil Works related to electrical works are completed.
Dibrugarh Electrical Circle	Beheating 33/11 kV substation	Equipment required at 33/11 kV Beheating substation.	Equipments required at Behiating SS for taking out 11 kV Dedicated Tea Feeder	Survey completed and report is under review in CPM (PIU).
Cachar electrical circle	Pailapool SS:	-----	Replacement of XLPE cable of 33/11kV S/S at Pailapool, 260 m	Survey Completed. No civil work related to electrical work is required.

Annexure 6

**Letter to Contractor Regarding Environment Management Plan Compliance
(Pacakge 1)**



ASSAM POWER DISTRIBUTION COMPANY LTD.
OFFICE OF THE CHIEF PROJECT MANAGER
PROJECT IMPLEMENTATION UNIT (ADB)

Registered Office: 2nd Floor, Bijulee Bhawan, Paltan Bazar, Guwahati - 781001
CIN- U40109AS2003SGCOO7242

Tel No. - +91361-2733094; Fax - +91361-2739535; email: cpm_piuadb@hotmail.com

No: CPM (PIU)/APDCL/ADB/Tranche-4/PKG-1/2014/ 114

Date: 20/09/2016

To:

M/S NECCON Power & Infra Ltd.
Senduri Ali; A.T Road, Jorhat
Jorhat - 785 001

**Sub: - Conducting Environmental Monitoring [Environment Management Plan (EMP)] - for
Package No. ADB/T4/ PKG-I/NSS Lot-I, Lot-II & Lot-III package**

Ref: This office Letter No. (1) : CPM (PIU)/APDCL/ADB/Tranche-4/PKG-1/2014-15/61 dt. 31.12.2015
(2) : CPM (PIU)/APDCL/ADB/Tranche-4/PKG-1/2014-15/95 dt. 17.06.2016

Contract No.: 1) Contract No.: CON-01/ADB/Tranche-4/APDCL/NSS/Lot-I; Dtd. 31.07.2015
2) Contract No.: CON-01/ADB/Tranche-4/APDCL/NSS/Lot-II; Dtd. 31.07.2015
3) Contract No.: CON-01/ADB/Tranche-4/APDCL/NSS/Lot-III; Dt. 31.07.2015

Dear Sir,

With reference to the above, you are to submit monthly Environmental Monitoring report as per Environmental Management Plan (EMP) and submit the same to the undersigned with a copy to Director (PMU) ,APDCL. But as reported by Director (PMU) , APDCL, that till date you have not submitted the same.

As such, you are requested to submit the report immediately..

This is for your information & necessary action.

Yours faithfully

Chief Project Manager (PIU)
ADB/EAP, APDCL, Guwahati-01

Memo No: CPM (PIU)/APDCL/ADB/Tranche-4/PKG-1/2014/

Date: /09/2016

Copy to:

- 1) The Director (PMU) ,APDCL, Bijuli Bhawan, Paltanbazar, Ghy-1-For favour of Information.
- 2) M/s SMEC International PTY. Ltd., 1st Floor, Bijulee Bhawan, Guwahati-1

Chief Project Manager (PIU)

Rice
due
21/09/2016



ASSAM POWER DISTRIBUTION COMPANY LTD.
OFFICE OF THE CHIEF PROJECT MANAGER
PROJECT IMPLEMENTATION UNIT (ADB)
Registered Office: 2nd Floor, Bijulee Bhawan, Paltan Bazar, Guwahati - 781001
CIN- U40109AS2003SGCOO7242
Tel No. +91361-2733094; Fax +91361-2739535; email: cpm_piuadb@hotmail.com

No: CPM (PIU)/APDCL/ADB/Tranche-4/IEE/10/2016/

Date: /10/2016

To:

M/S NECCON Power & Infra Ltd.
Senduri Ali, A.T Road, Jorhat
Jorhat – 785 001

Sub: - Environmental Data - for Package No. ADB/T4/ PKG-I/NSS Lot-I, Lot-II & Lot-III package

Ref: This office Letter No. (1) : CPM (PIU)/APDCL/ADB/Tranche-4/IEE/10/2016/ dt. 31.12.2015
(2) : CPM (PIU)/APDCL/ADB/Tranche-4/IEE/10/2016/ dt. 17.06.2016

Contract No.: 1) Contract No.: CON-01/ADB/Tranche-4/APDCL/NSS/Lot-I; Dtd. 31.07.2015
2) Contract No.: CON-01/ADB/Tranche-4/APDCL/NSS/Lot-II; Dtd. 31.07.2015
3) Contract No.: CON-01/ADB/Tranche-4/APDCL/NSS/Lot-III; Dt. 31.07.2015

Dear Sir,

With reference to the above, you are requested to submit up to date report for **Environmental Data** for project under Tranche-4 under APSEIP. This are required due to change of substations location, Initial Environment Examination need to be updated baseline data for air, water and noise at all new sites and cleared from ADB before starting of work at the changed location and submit the same to the undersigned with a copy to Director (PMU) .APDCL. But as reported by Director (PMU), APDCL, that till date you have not submitted the same.

As such, you are requested to submit the report immediately..

This is for your information & necessary action.

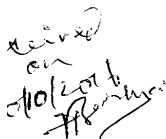
Yours faithfully



Chief Project Manager (PIU)
ADB/EAP, APDCL, Guwahati-01

Memo No: CPM (PIU)/APDCL/ADB/Tranche-4/IEE/10/2016/ Date: 08/10/2016

Copy to:

- 1) The Director (PMU), APDCL, Bijuli Bhawan, Paltanbazar, Ghy-1-For favour of Information.
- 2) M/s SMEC International PTY. Ltd., 1st Floor, Bijulee Bhawan, Guwahati-1




Chief Project Manager (PIU)

Annexure 7

**Letter to Contractor Regarding Environment Management Plan Compliance
(Package 2)**



ASSAM POWER DISTRIBUTION COMPANY LTD.

OFFICE OF THE CHIEF PROJECT MANAGER
PROJECT IMPLEMENTATION UNIT (ADB)

Registered Office: 2nd Floor, Bijulee Bhawan, Paltan Bazar, Guwahati - 781001
CIN- U40109AS2003SGCOO7242

Tel No. +91361-2733094; Fax +91361-2739535; email: cpm_piudb@hotmail.com

No: CPM (PIU)/APDCL/ADB/Tranche-4/IEE/2014/

Date: /10/2016

To:

M/s T&T Projects Ltd
T-3, Parmeshwari Bldg., Chatribari Road
Guwahati-781001
[email: project@tntprojects.in]

Sub: - Environmental Data - for Package No. ADB/T4/ PKG-II/R&M package

Contract No.:1 **Contract No: Con-05/ADB/Tranche-4/APDCL/R&M dtd.20.01.2016**

Dear Sir(s),

With reference to the above, you are requested to submit up to date report for **Environmental Data** for project under Tranche-4 under APSEIP. This are required due to change of site location and Initial Environment Examination need to be updated baseline data for air, water and noise at all new sites and cleared from ADB before starting of work at the changed location and submit the same to the undersigned with a copy to Director (PMU) .APDCL. As reported by Director (PMU) , APDCL, that till date you have not submitted the same.

As such, you are requested to submit the report immediately..

This is for your information & necessary action.

Yours faithfully

Chief Project Manager (PIU)
ADB/EAP, APDCL, Guwahati-01

Memo No: CPM (PIU)/APDCL/ADB/Tranche-4/IEE/2014/ 11(6) Date: 05/10/2016

Copy to:

- 1) The Director (PMU) ,APDCL, Bijuli Bhawan, Paltanbazar, Ghy-1-For favour of Information.
- 2) M/s SMEC International PTY. Ltd., 1st Floor, Bijulee Bhawan, Guwahati-1

Chief Project Manager (PIU)

*Received
Refuse
06-10-16*

Annexure 8

Letter Regarding Submission of Environmental Management Plan Compliance Report
(2nd Quarter Package 1)

NECCON POWER & INFRA LIMITED

(Formerly : North Eastern Cables & Conductors (P) Ltd.)



REGISTERED OFFICE: SEUN, ALLIAT ROAD, JORHAT-785 001, ASSAM. PHONE : 0376-2361433, 2360354 FAX: 2361316. GRAM: NECCON,
E-mail: necon11@yahoo.com, necon_ghy@yahoo.co.uk, Web: www.necongroup.com

Ref: NECCON/D (PMU)/APDCL/16-17/VS1483

June 22, 2016

To,

The Director (PMU)
Assam Power Distribution Company Ltd.
Bijulee Bhawan, Paltanbazar,
Gawahati- 781 001, ASSAM

Sub: Environment Management Plan (EMP).

Ref: (1) Contract No.: CON-01/ADB/TRANCHE-4/APDCL/NSS/LOT-I; Dated: 31.07.2015.
(2) Contract No.: CON-02/ADB/TRANCHE-4/APDCL/NSS/LOT-II; Dated: 31.07.2015.
(3) Contract No.: CON-03/ADB/TRANCHE-4/APDCL/NSS/LOT-III; Dated: 31.07.2015.
(4) Letter No.: CPM (PIU)/APDCL/Tranche – 4/PKG – I/2014-15/95; Dtd. 17.06.2016.

Dear Sir

With reference to above, Please find inclosed herewith the compliance report for EMP from April 2016 to June 2016 (2nd Quarter).

1. **Lobour License** : The labour Licence obtained from Labour commissioner, Guwahati vide serial no. 1856, license no. CLL(Assam)/01/2016/1856 date 01.03.2016 and is attached as ANNEXURE – A
2. **Merine cum Erection Insurance**: Policy are attached as ANNEXURE – B (for LOT-I, II and III).
3. **PUC**: It is our routine to check that all the vehicles deputed on work contains valid Pollution Under Control Certificate (PUC). Certificates are attached as ANNEXURE – C for ready reference.
4. **Form of Challan for Transport of materials** are attached as ANNEXURE-D.

It is our endeavor to see that all the safety and environmental safeguards are taken care by us at all the sites under ADB funded Project.

Thanking You,

Yours Sincerely,
For, NECCON Power & Infra Ltd.

(BHOJRAJ)
CGM (P)

Copy to:

The Chief Project Manager, (PIU),
ADB/EAP, APDCL, Guwahati – 01.



Best Productivity Performance National Award Winner (SSI Sector) 1995-96 & 2007

Unit/Office: 1 Industrial Estate, Cinnamara, Jorhat-785 008 (Assam), Phone: 2360503, 2360354
2 F44, Industrial Area, Sikar-332001 (Rajasthan), Phone: 01572-258929, 252741
3 Bapi Industrial Estate, Bapi, Dausa (Rajasthan)
Branch Office: 1 NECCON House, 37, Tulsicala Road, Ulubari, Guwahati-781 007, Phone: 0361-2523626
Fax: 2522789, E-mail: necon_ghy@yahoo.com
2 416, (4th Floor), City Plaza, Space Cinema Complex, Jaipur-302016 (Rajasthan).
Tele Fax: (0141) 2281540, E-mail: neconjpr@yahoo.com

Productivity, Quality, Innovation and Management are the Pillars of our Success

Annexure 9

**Letter Regarding Submission of Environmental Management Plan Compliance Report
(3rd Quarter Package 1)**

NECCON POWER & INFRA LIMITED

(Formerly : North Eastern Cables & Conductors (P) Ltd.)



REGISTERED OFFICE: BELN, 11, JAT ROAD, GUWAHATI-781 001, ASSAM. PHONE: 0361-2523623, 2523624. FAX: 0361-2523623. E-MAIL: neccon@necconpower.com, neccon@necconpower.com. WEBSITE: www.necconpower.com

Ref: NECCON/D (PMU)/APDCL/16-17/VS1692

September 22, 2016

To,

The Director (PMU)
Assam Power Distribution Company Ltd.
Bijulee Bhawan, Paltan Bazar,
Gawahati- 781 001, ASSAM.

Sub: Environment Management Plan (EMP).

- Ref: (1) Contract No.: CON-01/ADB/TRANCHE-4/APDCL/NSS/LOT-I; Dated: 31.07.2015.
(2) Contract No.: CON-02/ADB/TRANCHE-4/APDCL/NSS/LOT-II; Dated: 31.07.2015.
(3) Contract No.: CON-03/ADB/TRANCHE-4/APDCL/NSS/LOT-III; Dated: 31.07.2015.
(4) Letter No.: CPM (PIU)/APDCL/ADB/Tranche-4/PKG-1/2014-15/61; Dtd: 31.12.2016.
(5) Letter No.: CPM (PIU)/APDCL/Tranche – 4/PKG – I/2014-15/95; Dtd: 17.06.2016.
(6) Your Letter No.: CPM (PIU)/APDCL/ADB/Tr-4/PKG-1/2014/114; Dtd: 20.09.2016.

Dear Sir

With reference to above, Please find inclosed herewith the compliance report for EMP from July, 2016 to September, 2016 (3rd Quarter).

1. **Labour License** : The labour Licence obtained from Labour commissioner, Guwahati vide serial no. 1856, license no. CLL(Assam)/01/2016/1856 date 01.03.2016 and is attached as ANNEXURE – A
2. **Merine cum Erection Insurance**: Policy are attached as ANNEXURE – B (for LOT-I, II and III).
3. **PUC**: It is our routine to check that all the vehicles deputed on work contains valid Pollution Under Control Certificate (PUC). Certificates are attached as ANNEXURE – C for ready reference.
4. **Form of Challan for Transport of materials** are attached as ANNEXURE-D.

It is our endeavor to see that all the safety and environmental safeguards are taken care by us at all the sites under ADB funded Project.

Thanking You,

Yours Sincerely,
For, NECCON Power & Infra Ltd.

(T. R. Sharma)
Director (Technical)

Copy for kind information to:

- (1) The Chief Project Manager, (PIU), ADB/EAP, APDCL, Guwahati – 01.
- (2) M/s. SMEC International PTY. Ltd., 1st Floor, Bijulee Bhawan, Guwahati 01.

Received
23/9/16
S 303



PART-01

Best Productivity Performance National Award Winner (SSI Sector) 1995-96 & 2007

Office	1	Industrial Estate, Chinamara Jorhat-785 008 (Assam) Phone: 2380503, 2360354
	2	P44, Industrial Area, Sikar-332001 (Rajasthan) Phone: 01572-260323, 252741
	3	Bach Industrial Estate, Bap, Dausa (Rajasthan)
Branch Office	1	NECCON House, 37, Tinsaha Road, U/Bar, Guwahati-781 007. Phone: 0361-2523623 Fax: 2523739. E-mail: neccon@necconpower.com
	2	415/A, 4 th Floor, City Plaza, Suda Cinema Complex, Jaipur-302019, Rajasthan. Tel: Fax: 0141-2231540. E-mail: neccon@necconpower.com

Productivity, Quality, Innovation and Management are the Pillars of our Success

Annexure 10

Letter Regarding Excluding the Environmental Monitoring From EMP
(Package 2)

T.T
10

T & T PROJECTS LTD.

(UNIT: TRADE & TECHNOLOGY)

T-3, Parmeshwari Bldg., Chatribari Rd., Guwahati-781001

Ph. : (0361) 2546096, Fax: (0361) 2546096

E-mail: ttgw1@hotmail.com

T&TP/APDCL/ADB/AUG & R&M WORKS/DWG/16-17/S S- 56

Dtd. 24.10.2016

To
The Chief Project Manager (PIU-ADB)
Assam Power Distribution Co. Ltd.,
2nd Floor, Bijulee Bhawan, Paltan Bazar
Guwahati-781001, (Assam)

Reference: LOA for Supply against Construction of Augmentation and R&M of 33/11 KV Sub Stations, Construction of 33 KV & 11 KV Lines and Construction of 11 KV ABC Lines in Various Electrical Circles within The State of Assam On Turnkey Basis against "Loan No. 3200 IND"
LOA No. :- CPM(PIU)/APDCL/Tranche-4/PKG-II/2014/36 Dated 31.12.2015

LOA for Erection against Construction of Augmentation and R&M of 33/11 KV Sub Stations, Construction of 33 KV & 11 KV Lines and Construction of 11 KV ABC Lines in Various Electrical Circles within The State of Assam On Turnkey Basis against "Loan No. 3200 IND"
LOA No. :- CPM(PIU)/APDCL/Tranche-4/PKG-II/2014-15/37 Dated 31.12.2015

Sub: Environment Baseline Data.

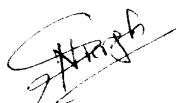
Dear Sir,

In inviting reference to your letter no. CPM(PIU)/APDCL/ADB/Tranch-4/IEE/2014/11 dated 05.10.2016 and subject therein we would like to bring to your notice that we are to execute R&M and Augmentation work in an existing sub- station where hardly there will be any impact on air and water since involvement of civil work is very less. Further for Over Head 33kv & 11kv works there will not be any major involvement of civil work which will impact environment and that too erection of Pole has to be done at a span of 45 mtr. to 50 mtr. and for such a small quantum of civil work (0.8 cum to 1.2 cum approx) environmental base line data is not feasible on each and every location. Therefore we understand the same is not required seeing the involvement of very small quantum of civil work etc.

As desired by you we are enclosing herewith the labour licence for the said job for your perusal.

Thanking you

Very truly yours,
For **T & T PROJECTS LIMITED.**



(S.N.Singh)
Sr. Project Manager
Encls : Documents as above