

Environmental Monitoring Report

Project Number: 41614-036 April 2017

Period: July 2015 – December 2015

IND: Assam Power Sector Enhancement Investment Program - Tranche 4

Submitted by Assam Power Distribution Company Limited, Guwahati

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Asian Development Bank



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No. ASEB/PMU/T-4/235/2014/Pt-1/127

Date : 28-02-2017

To, Country Director Indian Resident Mission, ADB 4 San Martin Marg, Chanakyapuri, New Delhi -110021

ASIAN DEVELOPMENT BANK INRM

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

Nos

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

Director, PMU/APDCL





Assam Power Sector Enhancement Investment Program

Tranche – 4 (Loan No.: 3200-IND)

Bi-Annual

Environmental Safeguard Monitoring Report

(July - December, 2015)

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
Т&Т	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/ReportingAgency 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, 2015
ν.	Report No.	02
vi.	Report for the period	July to December, 2015
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 5)				
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 2 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. 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.

²The 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].

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S.No.	List of sub-projects	Name of the
	i. 3 Nos. New 2X5 MVA, 33/11kV Substations;	PIU(Annexure 1)
	ii. New 33kV Lines with terminal equipment (76km);iii. New 11kV Lines (76km);	Golaghat Electrical
	iv. 1 no. Railway track crossing in the 33kV Line;	Circle
	 v. 1 no. River crossing in the 33kV Line. 	
	vi. 4 Nos. Railway track crossing in the 11kV Line;	
	i. 6 Nos. New 2X5 MVA, 33/11kV Substations;	
	ii. New 33kV LILO Lines (20km)	
Lot 3	iii. New 33kV Lines with terminal equipment (131km)	Tezpur Electrical Circle
2013	iv. New 11kV Lines (125km)	
	1 No., 33kV strengthening of River crossing span at Ghola river in	Mangaldoi Electrical
	between 33kV line from Rowta-Kasubil with rail pole.	Circle
Packag	e 2: Augmentation and R&M of 33/11kV Substations, Construction of	f 33kV & 11kV Lines and
Constr	uction of 11kV ABC Lines (Annexure 6)	
A - 33k	V 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 - 11k	V 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 - Sub	station Augmentation	
	Augmentation of existing 2X2.5 MVA Transformer to 2X5 MVA	
i.	Transformer at 33/11kV Galeky substation in Sivasagar electrical circle.	Sivasagar
	Augmentation of existing 1X2.5 MVA + 1X1.6MVA Transformer to	
ii.	1X2.5 MVA +1X5 MVA Transformer at 33/11kV Namti substation in	Sivasagar
	Sibsagar electrical circle.	
	Augmentation of existing 1X2.5 MVA + 1X5 MVA Transformer to	
iii.	2X5 MVA Transformer with provision of Terminal equipment for	Dibrugarh
	Namprup-Rajgarh Line at 33/11kV Rajgarh substation 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 - 11k	V Arial Bunched Cables (ABC)			
i.	2 Nos. New 10km ABC Lines at Sivasagar electrical circle.	Sivasagar		
ii.	3 Nos. New16km ABC Lines at Golaghat electrical circle.	Golaghat		
iii.	New 4.95km ABC Lines at Guwahati electrical circle-I.	GEC 1		
E - Met	er Testing Laboratory-Jorhat Electrical 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&I	A works of 33/11kV Substations			
Α.	Civil Works			
i.	2 Nos. Substations at Dibrugarh electrical circle.	Dibrugarh		
ii.	7 Nos. Substations at Tinsukia electrical circle.	Tinsukia		
iii.	4 Nos. Substations at Sivasagar electrical circle.	Sivasagar		
iv.	5 Nos. Substations at Kokrajhar electrical circle	Kokrajhar		
٧.	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		
х.	2 Nos. Substations at Jorhat electrical circle	Jorhat		
В.	Electrical Works			
xi.	3 Nos. Substations at Nagaon electrical circle.	Nagaon		
xii.	1 No. 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		
xvii.	2 Nos. Substations at Sivasagar electrical circle	Dibrugarh		

S.No.	List	of sub-projects	Name	of	the
0 00			PIU(Annexu	re 1)	
G - R&		orks of 33kV Lines			
i.		V S/C Lines for LTPS-Sonari Line for Napuk substation- PSC	Sivasagar		
		e, AAA Wolf Conductor, Span 40 M V S/C Lines for NTPS-Salkatoni Line for Borhat substation- PSC	Sivasagar		
ii.		e, AAA Wolf Conductor, Span 40 M	Sivasagai		
Packag	ge 3:	Mobile Testing Vehicles for T&C Divisions & Mobile Mainter	ance Vehi	cles for	Sub-
Divisio	ns in	Assam and Mobile Trailer Mounted 33/11kV Substations for En	nergency R	estorati	ion of
Distrib	ution	system			
	Α.	Mobile Testing Vehicles for T&C Divisions:			
	i.	5 Nos. in Upper Assam Zone			
	ii.	5 Nos. in Central Assam Zone			
Lot 1	iii.	8 Nos. in Lower Assam Zone			
	В.	Mobile Maintenance Vehicle for Sub-Divisions:			
	i.	5 Nos. in Upper Assam Zone			
	ii.	2 Nos. in Central Assam Zone			
	iii.	13 Nos. in Lower Assam Zone			
			i. GEC 1		
	C.	Mobile Trailer Mounted 33/11kV Substations for Emergency		NuruzZa	
Lot 2		Restoration of Distribution system: 1 No. in Guwahati Electrical Circle-I.	DGM, 943	51-010	46
	i.		ii. Jorhat	`h Dih	ingia
	ii.	1 No. in Jorhat Electrical Circle	Kumud (DGM, 943		
Packag	ze 4:	Supply of Intelligent Modems Including Accessories at Consume	•		
-		er 19 Electrical Circles			
	i.	Installation and interfacing of the existing meters at the			
		Consumer premises with the Modems.			
	ii.	Integration of the meter data into the Head end Meter Data			
		Acquisition Software for Display of Meter data.			
	iii.	Provision of meter data in standard format (like XML) to			
		APDCL for consumption by the existing SAP ISU System.			
	iv.	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. The hand over process of the sub-project sites to the Contractor by PIU/IA is in progress.
- Package 2 price bid was opened on 29.06.2015. The price bid was sent for ADB's approval on 05.09.2015. The approval from ADB was received on 07.10.2015. Notice of award of contract to M/s T & T Projects issued on 23.12.2015.

- Package 3, (Lot I) revised bid was floated on 31.08.2015. The Technical Bid was opened on 27.10.2015 and the bid evaluation report send to ADB on 16.12.15 for approval. For Lot 2, the contract awarded to M/s Win Power on 28th September, 2015 and it is effective.
- Package 4 technical bid evaluation was previously completed and later was decided to be re-floated because of integration and compatibility issues with the existing IT system.

B.2 Sub-Project Implementation Status

SI.No	Name of Subprojects	Progress as on date of Report	
Lot 1	Tinsukia Electrical Circle i. 7 Nos. New 2X5 MVA, 33/11kV Substations;	 The site for seven sub-stations is finalized. The location of Mahakali sub-station has shifted to Chabua Tea Estate. Avoided acquisition of private land. Private land is to be acquired through direct/mutual negotiation for three sub-stations. The process of negotiation needs to be expedited for timely handing site to contractor. The remaining four sub-stations are located in tea estate. Except for sub-station at Chabua tea estate, IA obtained NOC and has set agreement with management of respective three tea estates. 	
	ii. New 33kV Lines (108.35km);		
	iii. New 11kV Lines (62km);		
	iv. 1 No. Railway track crossing in the 33kV Line;	No activity has started in this reporting period.	
	 v. 3 Nos. Railway track crossing in the 11kV Line; 		
	 Dibrugarh Electrical Circle i) 2 Nos. New 2X5 MVA, 33/11kV substations; ii) 15 km 33kV Line on GI STP with 	 Site for Gharamara sub-station is finalized, while confirmation awaited for sub-station at Namsung. Gharamara sub-station is in tea estate land and lease agreement (20 years) has been set. 	
	AAAC Wolf conductor form Namrup sub-station and 10km from Tingkhong sub-station to Kaliapani sub-station with terminal equipment at Namrup sub-station & Tingkhong sub-station.	No activity has started in this reporting period.	
Lot 2	iii) New 11kV Lines (22km);	No activity has started in this reporting period.	
	Sivasagar Electrical Circle i. 2 Nos. New 2X5 MVA, 33/11kV sub- stations;	 Private land is to be acquired through direct/mutual negotiation for Napuk sub-station. The process of negotiation needs to be expedited for timely handing of site to contractor. IA informed about possibility of shifting Borhat sub-station to new location. Confirmation is awaited. 	
	ii. New 33kV LILO Lines (18km);		
	iii. New 11kV Lines (35.1km);	No activity has started in this reporting period.	
	iv. 1 no. Railway track crossing in the 33kV Line;		
	 v. 3 Nos. Railway track crossing in the 11kV Line; 		

SI.No	Name of Subprojects	Progress as on date of Report	
	Golaghat Electrical Circle i) 3 Nos. New 2X5 MVA, 33/11kV sub- stations;	 The site for three sub-stations are located in tea estate land. Radhabari Tea Estate donated land for Radhabari sub-station and Gift Deed is set. While NOC from tea estate is awaited for land identified for Phulangani and Doloujan sub-stations. 	
	ii) New 33kV Lines with terminal equipment (76km);		
	iii) New 11kV Lines (76km);		
	iv) 1 no. Railway track crossing in the 33kV Line;	No activity has started in this reporting period.	
	 v) 4 Nos. Railway track crossing in the 11kV Line; 	-	
	Tezpur Electrical Circle i) 6 Nos. New 2X5 MVA, 33/11kV Substations;	 The site for six sub-stations are finalized. Three sub-stations are located on government land and concern government department has donated the land. The mutation of land is in progress. The remaining three sub-stations are located in tea estate land. IA received NOC from two estates and is awaited from Bindukuri Tea Estate. 	
	ii) New 33kV LILO Lines (20km)		
Lot 3	iii) New 33kV Lines with terminal equipment (131km)	No activity has started in this reporting period.	
	iv) New 11kV Lines (125km)		
	Mangaldoi Electrical circle i) 1 No., 33kV strengthening of River crossing span at Ghola river in between 33kV line from Rowta- Kasubil with rail pole.	No activity has started in this reporting period.	

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 the Contractor.	In Progress	Yes.	
Changes in project design/scope (Occurred or envisaged).	Being Reviewed	Mahakali sub-station site is shifted to Chabua Tea Estate. Similarly, follow-up with IA and EA is being done to confirm on site location of remaining sub-projects.	After EA/IA confirmation on sites of sub-projects, the Initial Environmental Examination report of the project shall be updated.

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,	All development project listed in Schedule 1 of EIA notification require	Power distribution projects are excluded from the Schedule 1 list of EIA notification,

S.No	Notification/Rule	Requirements	Compliance Status
	2006, as amended	to get prior Environmental Clearance.	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 labor camp.	The handing over of site is yet to happen. Monitoring will be carried out once; contractor starts establishes and operationalize facilities.
3.	The Air (Prevention and Control of Pollution) Act, 1981, with Rules	Compliance to National Ambient Air Quality Standard Compliance to National Ambient Air Quality Standard Contractor starts establishes and operationalize facilities.	
4.	The Ozone Depleting Substances (Regulation and Handling) Rules, 2001 as amended	Avoid equipment using VFCs/PCBs	The handing over of site is yet to happen. Monitoring will be carried out to check use of CFCs/PCBs in equipment.
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.	The handing over of site is yet to happen. Hence, no issues related to this.
6.	The Hazardous Wastes (Management and Handling) Rules, 1989 as amended	Used/burned transformer oils to be dispose-off in accordance with the Rules	The handing over of site is yet to happen. Hence, no issues related to this.
7.	Noise Pollution (Regulation & Control) Rules, 2000	Compliance with Ambient Noise Standards in accordance to land use of the area	The handing over of site is yet to happen. Hence, no issues related to this.
8.	The Forest (Conservation) Act, 1980	Clearance from MoEF/Forest Department if the lines pass through the forest area.	The sub-stations are not located in forest area. While, route survey is yet to start to check passing of distribution line from RF/PF, National Parks, Wildlife Sanctuaries etc.

D.3 Compliance with ADBs Environmental Safeguards (SPS, 2009)

S.No.	ADBs Safeguard Requirements	Compliance Requirement	Status
1.	Environmental Assessment	Identify Potential 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. An EMP is prepared to avoid/mitigate the impacts identified in IEE.
2.	Environmental Planning and Management	The borrower will prepare an EMP that address the potential impacts and risks identified in IEE.	The EA has prepared an EMP addressing the potential impacts and risks, suggesting mitigation measures.
3.	Information Disclosure	The borrower will submit to ADB, the final IEE and environmental monitoring report.	The final IEE is submitted and disclosed in website of APDCL and ADB. The present monitoring report is for period July-

S.No.	ADBs Safeguard Requirements	Compliance Requirement	Status
4.	Consultation and Participation	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.	December, 2015. Public consultation was carried out during IEE preparation.
5.	Grievance Redress Mechanism	The borrower will establish a mechanism to receive and facilitate resolution of affected persons concerns, complaints and grievance about the project's environmental performance.	IA has directed its field unit for establishing GRM through their letter dated December 29, 2015.
6.	Monitoring and Reporting	The borrower will prepare a periodic monitoring report that describes progress with implementation of EMP and compliance issues and corrective actions.	This environmental monitoring report is for period of July-December, 2015 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.	One sub-station site location has change. Subject to such changes, IEE and EMP will be updated.
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 borrower will provide workers with	The various preventive and mitigation measures has been listed in the EMP for pollution abatement in the project.
10.	Occupational, Health and Safety	safe and healthy working environment, provide PPE to minimize risks, render training, document the accidents, diseases & incidents, and provide emergency	Providing of PPE to workers will be monitored once works starts at site.
11.	Physical Cultural Resources (CPR)	prevention and response managements. The borrower to avoid significant damage to physical cultural resources.	No damage to CPR,

D.4 Compliance with Covenant

Item No.		Covenants	Status of Compliance	
		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	The private land required for three sub-stations construction is being negotiated with respective individual owners. The remaining 17 sub-stations location is identified in tea estate land and government	
Schedule para. 7	5,	(a) all applicable laws and regulations of the Borrower and the State relating to land acquisition and involuntary resettlement;	land. In distribution line, works is yet to start and land	
pului		(b) the Involuntary Resettlement Safeguards;	requirement is not envisaged. However, during stringing of distribution line impacts on crops and structure will	
		(c) the RF; and	be assessed during route survey.	
		(d) all measures and requirements set forth in the respective RP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	The provisions of applicable laws of the borrower will be adhered to.	
		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:	The provisions of RF will be adhering to for three perso affected due to purchasing of their land.	
Schedule para. 8	5,	(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.		
		The Borrower shall ensure or cause EA to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, and all Subprojects' facilities comply with	The requisite regulatory requirements are being identified. No preconstruction related clearances i.e.	
Colored at 1	F	(a) all applicable laws and regulations of the Borrower and the State relating to environment, health, and safety;	forest, environment and wildlife clearances are envisaged for sub-station site. After finalization of sub- station locations, consultation with respective	
Schedule para. 9	5,	(b) the Environmental Safeguards;	departments will be done to check on need for obtaining	
		(c) the EARF; and	permission.	
		(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.	In case of distribution line, permission for tree cutting/pruning will be assessed during route survey and will be obtained, if identified. Works is still to start.	
Schedule para. 10	5,	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. However, if any identified during implementation stage the provision of SPS, 2009 and regulation of the country will be adhere to.	

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ltem No.	Covenants	Status of Compliance		
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.		
	The Borrower shall ensure or cause EA to ensure that all bidding documents and contracts for Works contain provisions that require contractors to:			
	(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 Monitoring Report;			
Schedule 5.	(b) make available a budget for all such environmental and social measures;	As per consultant advice to PMU, APDCL directed IA for amending the EMP missed out from bid document and		
para. 12	(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;	contracts for works. IA has issued letter of amendment to Contractor on December 27, 2015.		
	(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and			
	(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction;			
	The Borrower shall ensure or cause EA to ensure the following:			
	(a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;			
Schedule 5, para. 13	(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	The third bi-annual safeguard monitoring report for the project is due in July, 2016.		
	(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.			
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	The mobilization of contractor personal at site has not happened during this reporting period. Once labours are engaged and activities starts at site, monitoring will be carried out to comply with covenant requirements.		

Item No.	Covenants	Status of Compliance
	(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.5 Compliance with Environmental Management Plan

Project Activity Potential Environmental Impact		Mitigation Action	Compliance Status (Annexure 2)		
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	 3 sub-stations land being acquired. No facilities established during the quarter. 		
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 Design will be reviewed after receiving from EPC contractor. 		
Location of poles and line	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.	• Route survey activity is yet to start.		
alignment and design	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.	• Would be monitored at time of route survey.		
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	• 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.	 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.	• Sub-stations sites are not located in forest area.		
Involuntary resettlement or land acquisition	Loss of lands and structures	Compensation paid for temporary/ permanent loss of productive land.	In progress		
Encroachment into farmland	Loss of agricultural productivity.	Use existing poles wherever possible Avoid sighting new poles on farmland wherever	 Likely damage to crops/trees will be identified during route survey and 		

Project Activity Potential Environmental Impact		Mitigation Action	Compliance Status (Annexure 2)
		Farmers compensated for any permanent loss of productive land trees that need to be trimmed or removed along RoW.	alignment finalization of distribution line.
Interference with drainage patterns/Irrigationchannels	Temporary flooding hazards/ loss of agricultural production.	Appropriate sighting of poles to avoid channel interference.	• Would be monitored at time of distribution line alignment finalization.
Explosions/ Fire	Hazards to life.	Design of substations to include modern fire control systems/ firewalls. Provision of firefighting equipment to be located close to transformers, power generation equipment.	 Design will be reviewed after receiving from EPC contractor.
Construction			
Removal or disturbance to other public utilities.	Public inconvenient.	Advance notice to the public about the time and the duration of the utility disruption. Use of well trained and experienced machinery operators to reduce accidental damage to the public utilities. Restore the utilities immediately to overcome public inconvenient.	• Works yet to start.
Acquisition of paddy fields and other lands.	Loss of agricultural productivity.	 Avoid farming season wherever possible for the project activities. Ensure existing irrigation facilities are maintained in working condition. Protect/ preserve topsoil and reinstate after construction completed. Repair/ reinstate damaged bunds etc. after construction completed. Compensation for temporary loss in agricultural production. 	• Works yet to start.
Temporary outage of the electricity.	Loss of power supply to the local community when distribution lines crossing the new line are switched off.	Advance notice to the public about the time and the duration of the utility disruption. Restore the utilities immediately to overcome public inconvenient.	• Works yet to start.
Equipment layout and installation.	Noise and vibrations.	Selection of construction techniques and machinery to minimize ground disturbance.	• Works yet to start.

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status (Annexure 2)
Substation construction.	Loss of soil. Water pollution	Fill for the substation foundations obtained by creating or improving local drain system.Construction activities involving significant ground disturbance (i. e. substation land forming0 not undertaken during the monsoon season.	• Works yet to start.
Construction schedules	Noise nuisance to neighboring properties. Nuisance to Wild life if the line route construction crosses migratory path.	Construction activities only undertaken during the day and local communities informed of the construction schedule. Complete restriction of construction work for two months before and after the known period of migration by the animals.	• Works yet to start.
Construction schedules.	Noise nuisance to neighboring properties.	Construction activities only undertaken during the day and local communities informed of the construction schedule.	• Works yet to start.
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.	• Works yet to start.
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.	• Works yet to start.
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.	• Works yet to start.
Wood/ vegetation harvesting, cut and fill operations.	Loss of vegetation and deforestation. Effect on fauna	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. Proper awareness programme regarding conservation of flora, fauna including ground vegetation to all drivers, operators and other workers.	• Works yet to start.
Site clearance.	Vegetation	Marking of vegetation to be removed prior to clearance and strict control on clearing activities to ensure minimal clearance.	• Works yet to start.

Project Activity	Potential Environmental Impact	Mitigation Action	Compliance Status (Annexure 2)
	Soil erosion and surface runoff.	Construction in erosion and flood-prone areas should be restricted to the dry season. Treat clearing and filling areas against flow acceleration and construction work should be carefully designed to minimize obstruction or destruction to natural drainage.	Works yet to start.
Mechanized construction	Noise, vibration and operator safety, efficient operation. Noise, vibration, equipment wear and tear.	Construction equipment to be well maintained. Proper maintenance and turning off equipment not in use.	• Works yet to start.
Construction of roads for accessibility.	Increase in airborne dust particles. Increased land requirement for temporary accessibility.	Existing roads and tracks used for construction and maintenance access to the site wherever possible. New access ways restricted to a single carriageway width within the RoW.	• Works yet to start.
Transportation and storage of materials.	Nuisance to the general public.	Transport loading and unloading of construction materials should not cause nuisance to the people by way of noise, vibration and dust. Avoid storage of construction materials beside the road, around water bodies, residential or public sensitive locations. 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.	• Works yet to start.
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.	• Works yet to start.
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.	• Works yet to start.

Project Activity Potential Environmental Impact		Mitigation Action	Compliance Status (Annexure 2)
		Contractor to prepare and implement a health and safety plan. Contractor to arrange for health and safety awareness programmes.	
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. Compensation will be paid for loss of production, if any.	Works yet to start.
Operation and Maintenance	2		
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.	
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.	Will be monitored after completion and
Maintenance of Distribution line.	Exposure to electromagnetic interference.	Distribution line to comply with the design parameters of electromagnetic interference from cables.	operationalization of facilities being created.
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.	

Environmental Component	Project Stage	Parameters to be Monitored ³	Responsibility	Frequency	Compliance Status
	Pre-construction stage	Visible dust.	Contractor/EA	One time	Yet to start.
Air Quality	Construction Stage.	Visible dust, use of water sprays for dust suppression.	Contractor	One time	After contractor starting of works.
	Operation Stage.	Visible dust, use of water sprays for dust suppression.	EA	Once in 2 years	Not relevant at this stage.
	Pre-construction Stage	EA and contractors to document water source and wastewater treatment design.	Contractor/EA	One time	Yet to start.
Water Quality	Construction Stage.	EA and contractors to document water source and wastewater treatment system installed pH, BOD, Oil & Grease.	Contractor	One time	After contractor starting of works.
	Operation Stage	Water source and wastewater treatment.	EA	Once in 2 years	Not relevant at this stage.
Noise/ Vibration.	Pre-construction stage	Noise level [dB (A)]	Contractor/EA	One time	Yet to start.
	Construction Stage.	Noise level [dB (A)]	Contractor	One time	After contractor starting of works.
	Operation Stage.	Noise level [dB (A)]	EA	Once in 2 years	Not relevant at this stage.
	Pre-Construction stage	Visible spills and/ or soil staining, Oil & grease.	Contractor/EA	One time	Yet to start.
Soil	Construction Stage.	Visible spills and/ or soil staining, Oil & grease.	Contractor	One time	After contractor starting of works.
	Operation Stage.	Visible spills and/ or soil staining, Oil & grease.	EA	Once in 2 years	Not relevant at this stage.

D.5 Compliance with Environmental Monitoring Plan

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.

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

There are possibilities of changes in the sitting of five sub-stations due to technical and other issues. IA is assessing the suitability of each of this sub-station and a final confirmation is awaited.

SI.No.	Parameters	Compliance Status		
1	Numbers of Staff deputed/ employed for environment safeguards	One designated Assistant General Manager is heading the Environmental and Social Management Unit (ESMU) in PMU. ESMU is being assisted and supported by Individual Environmental & Social Safeguard Experts and three support staffs.		
2	PMU/PIU established as per proposed institutional mechanism	The ESMU has been established vide Office Order No. ASEB/PMU/ESMU/196/09/01 Dated 10 th November, 2009. Refer to Annexure - 3.		
3	GRC formation	Correspondence have been made to the respective zone vide letter No. CPM (PIU)/APDCL/Tech-8/Tranche-4/2013-14/117, dated 29/12/2016. Refer to Annexure- 4 .		

F. INSTITUTIONAL MECHANISM

G. GRIEVANCE REDRESS AND THEIR RESOULTION

S.No.	Complainant Name and Address	Date of receipt	Subject/ Issue	Remarks
I	No Complaint received till date.		No issue reported till date.	Construction Work is yet to commence.

Annexure 1

SI. No.	Name of the Sub station	Electrical Circle	Electrical Division	Name & Contact Numbers	Electrical Sub Division (PIU)	Name & Contact Numbers
	age-1 (Lot 1): (i) 7 Nos. of new 33/11kV crossing in the 11kV Line	Substations; (ii) Ne	w 33kV Lines (108.3	5km); (iii) New 11kV Lines (62km	n); (iv) 1 no. Railway track	crossing in the 33kV Line and (v) 3 Nos. Railway
1	33/11kV Gangabari S/S		Tinsukia	Mr. Jagadish Baishya (AGM)	Tinsukia ESD-II	Mr. Rabi Sankar Sengupta, Assistant Manager, TEC, - 94350-36018
2	33/11kV Gelapukhuri S/S		Division	94353-42745	Tinsukia ESD-III	Mr. A.K. Bordoloi (SDE),
3	33/11kV Mahakali/Chabua S/S				Tinsukia ESD-III	94350-37152
4	33/11kV Baghjan S/S	Tinsukia				Ma Debreth CDE
5	33/11kV Philobari S/S			Mr. C. D. Douri (ACM)	Doomdooma ESD	Mr. Debnath, SDE, 94354-75707
6	33/11kV Dhola S/S		Digboi Division	Mr. G. D. Deuri (AGM) 94350-80038		5-55- 75767
7	33/11kV Powai S/S				Margherita ESD	Mr. Binita Kutun, J.M, Margherita SD, 84860-34133.
Kaliap	oani substation with terminal equipmen				; (22km)	station and 10km from Tingkhong substation to Mr. Rajib Gogoi, SDE,94357-06105
8	33/11kV Gharamara S/S	Dibrugarh	Dibrugarh		Dibrugarh ESD-II	Mr. Sankar Mili, JM,94357-06116
9	33/11kV Namchang S/S		Division		Dibrugarh ESD-I	Mr. Mahen Buragohain, SDE, 94357-06104
	age 1 (Lot 2): (i) 2 Nos. New 2X5 MVA, 3 ay track crossing in the 11kV Line;	33/11kV Substations	; (ii) New 33kV LILO	Lines (18km); (iii) New 11kV Lir	nes (35.1km); (iv) 1 no. Ra	ailway track crossing in the 33kV Line; (v) 3 Nos.
10	33/11kV Napuk S/S			Mr. Dipondro Kr. Porush	Nazira ESD	Mr. Dimbeswar Charukia, SDE, 94355-27488
11	33/11kV Borhat S/S	Sivasagar	Nazira Division	Mr. Dipendra Kr. Baruah (AGM), 94353-88745	Choraideu ESD	Mr. Sumit Sinha, SDE, 73990-62073
	age 1 (Lot 2): (i) 3 Nos. New 2X5 MVA, Line; (v) 1 no. River crossing in the 33k				ikm); (iii) New 11kV Lines	(76km); (iv) 1 no. Railway track crossing in the
12	33/11kV Dayang S/S		Calashat	Mr. Harendra Nath Saikia	Golaghat ESD-I	Mr. Parag Jyoti Dutta, SDE, 94350-51051
13	33/11kV Naharbari S/S	Golaghat	Golaghat Division	(AGM), 94350-54388	Golaghat ESD-II	Mr. Kamala Kt. Pegu, SDE, 97079-99525
14	33/11kV Radhabari S/S				Kamargaon ESD	Mr. B. C. Bhatta, SDE, 94353-02541

Details of Implementing Agency, APDCL

SI. No.	Name of the Sub station	Electrical Circle	Electrical Division	Name & Contact Numbers	Electrical Sub Division (PIU)	Name & Contact Numbers		
	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 (131km) (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		Dhekiajuli Division	94350-80537	Dhekiajuli ESD-II	Mr. Pranjol Kakoty, SDE,		
16	33/11kV Borsala S/S					88765-89078		
17	33/11kV Rakshyasmari S/S		Division		Dhekiajuli ESD-I	Mr. Debojit Das, FME, 97076-83391		
18	33/11kV Bedeti S/S	Tezpur	Biswanath Chariali Division	Mr. Mokshada, AGM, 98540-54613	Chariali ESD	Mr. Dilip Saikia, AM,94355-06295		
19	33/11kV Bindukuri S/S		Tezpur Division	Mr. Rafiul Amin Dewan, 94351-07259	Tezpur ESD-II	Mr. Birinchi Chetia, JE,73990-90586		
20	33/11kV Borjuli S/S				Rangapara ESD	Mr. Pukhrel, SDE, 73990-90608		

Annexure 2

Safeguard Implementation Status

3.1 Activities performed during July - December 2015

The individual Safeguard Specialist during the reporting period provided support to PMU and has spent time in carrying out detailed review of project agreement, loan agreement, and social and environmental safeguard documents of 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 2015) are provided below.

- Review of loan and project agreements to check covenants on safeguard, whose compliance needs to be ensured during project implementation;
- Review of bid documents to check integration of safeguard conditions as stipulated in Schedule 5 of the loan agreement.
- Review of safeguards documents i.e. RP, RF etc.;
- Gathering implementing agency details who will be responsible for implementation of sub-projects;
- Follow-up with IA to collect status on confirmed sub-stations location, process for acquisition of private land and transfer of government land;
- Conducted site visit to sub-stations located in 5 project districts of Tranche-4;
- Prepared the monthly progress report for the month of July, August, September, October and November, 2015 and submitted to the Director, PMU;
- Prepared the Quarterly Progress Report for the period July to September, 2015 and submitted to the Director, PMU;
- Prepared and submitted the Site visit report of Sonitpur District to the Director, PMU APDCL.
- Prepared and submitted the Site visit report of Tinsukia District to the Director, PMU APDCL.
- Prepared the site visit report of Dibrugarh, Sivasagar and Golaghat Districts.
- Assisted EA/PMU in preparing the Bi-annual safeguard monitoring report for the period of January to June, 2015;
- Communicated PMU regarding need to establish Grievance Redress Mechanism (GRM), confirmation on geographical location of 5 sub-stations;
- Meeting with official of PMU responsible for safeguards implementation;

3.1.1 Safeguard Review Findings

The Resettlement Plan (RP) prepared (August, 2014) for the project has envisaged social impacts due to acquisition of land, damages to crop, and other losses, due to sub-station construction and stringing of distribution line. The RP has indicated that 6 substations are proposed on private land belong to various individual owner/household, 9 sub-stations are proposed on tea estate land and 5 sub-stations are proposed on government land. The private lands which are owned by individual owner will be acquired through mutual negotiation.

As part of initiating the service, review of the Resettlement Plan prepared by APDCL, GoA has been done and the review findings has been compared (Table 3.1) with the sub-station site finalisation status provided by the implementing agency.

Sub-project Particular			As Per IEE, August 2	2014	As per IA Status	
SI. No	Name of sub-station	Area (Ha)	Ownership	Name of the Owner	Ownership	Name of the Owner
1	33/11kV Bindukuri	0.2	Tea Estate Land	Tezpur & Ghara TE	Tea Estate Land	Tezpur & Ghara TE
2	33/11kV Borjuli	0.134	Government Land	Not Applicable	Tea Estate Land	Borjuli TE
3	33/11kV Bedeti	0.3	Tea Estate Land	Bihali TE	Tea Estate Land	Bihali TE
4	33/11kV Singri	0.268	Government Land	Not Applicable	Government Land	Not Applicable
5	33/11kV Rakhyshmari	0.268	Government Land	Not Applicable	Government Land	Not Applicable
6	33/11kV Borsola	0.268	Government Land	Not Applicable	Government Land	Not Applicable
7	33/11kV Baghjan	0.268	Tea Estate Land	Baghjan TE	Tea Estate Land	Baghjan TE

Table 3.1: Sub-stations	site finalisation status
Table 5.1. Sub-Stations	site infansation status

Sub-project Particular			As Per IEE, August 2	2014	As per IA Status	
SI. No	Name of sub-station	Area (Ha)	Ownership	Name of the Owner	Ownership	Name of the Owner
8	33/11kV Gangabari	0.45	Private Land	Md. Samad Ali	Private Land	Md. Samad Ali
9	33/11kV Mahakali	0.134	Private Land	Chandradhar Malakar	Tea Estate Land	Chabua TE
10	33/11kV Dholla	0.268	Tea Estate Land	Dholla TE	Tea Estate Land	Dholla TE
11	33/11kV Gelapukhuri	0.134	Private Land	Mr. Mrinal Dohutia	Private Land	Mr. Mrinal Dohutia
12	33/11kV Philobari	0.268	Tea Estate Land	Philobari TE	Tea Estate Land	Philobari TE
13	3311/kV Pawoi	0.132	Tea Estate Land	Pawoi TE	Tea Estate Land	Pawoi TE
14	33/11kV Borhat	0.162	Government Land	APDCL	Tea Estate Land	Barasali TE
15	33//11kV Napuk	0.159	Private Land	Md. Asfik Ali	Private Land	Madhurjy A
16	33/11kV Gharamara	0.201	Private Land	Naresh Chandra Dev	Tea Estate Land	Rungliting TE
17	33/11 kV Namsung	0.201	Private Land	Jagat Ray Ghatwar	Namsung site is identified at Podum	
18	33/11kV Radhabari	0.258	Tea Estate Land	Radhabari TE	Tea Estate Land	Radhabari TE
19	33/11kV Nahorbari	0.408	Tea Estate Land	Naharbari TE	Tea Estate Land	Naharbari TE
20	33/11kV Dayang	0.194	Tea Estate Land	Dayang TE	Tea Estate Land	Dayang TE

The geographical location (Table 3.1) of five sub-stations i.e. (a) 33/11kV Borjuli, (b) 33/11kV Borhat, (c) 33/11kV Gharamara, (d) 33/11 kV Namsung and (e) 33/11 kV Mahakali, has been shifted. Except for Namsung sub-station, all four sub-stations site is identified in tea estate land. The sub-station proposed at Namsung has been dropped and proposes new sub-station at Podumoni.

- ii. The private land requirement and affected person number has reduced due to shifting of Gharamara and Mahakali, and dropping of Namsung sub-stations. Now only three private land owners will be affected by acquisition of private land.
- iii. As per current land availability status (Table 3.3) till end of 4thquarter of 2015, private land will be acquired through mutual negotiation in progress for sub-stations located at Gangabari, Gelapukhuri, and Napuk. The process needs to be expedited.
- iv. No activities have started with respect to distribution line till this reporting period. The distribution line alignment mostly traverses through agriculture lands, losses to crop, assets, trees, etc. of any individual or affected person shall be assessed during RoW survey and verification. The status of affected persons and compensation eligible will be updated in the report based on progress of R&R activities.
- v. The various GoI and GoA social safeguard related regulations that are applicable in the project has been listed below in Table 3.2. However, 'The Land Acquisition Act, 1894 and 1984 amendments' indicated in RP is no more applicable, which has been superseded by 'The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013' that came to effect from January 1, 2014.

1.	The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013	Yes
1.	The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006 & rules 2007	Yes
2.	The Provision of the Panchayats (Extension to the Scheduled Areas) Act, 1996	Yes
3.	The Indian Telegraph Act, 1885	Yes
4.	Indian Treasure Trove Act, 1878 (as modified up to September 1949)	Yes
5.	The Antiquities and Art Treasures Act, 1972	Yes

Table No. 3.2: Regulations Applicable in the Project

6.	The Child Labour (Prohibition and Regulation) Act, 1986	Yes
7.	The Bonded Labour (Abolition) Act 1976	Yes
8.	The Trade Union Act, 1926	No
9.	Minimum Wages Act, 1948	Yes
10.	Workmen's Compensation Act, 1923	Yes
11.	The Contract Labour (Regulation & Abolition) Act, 1970 and Rules	Yes
12.	The E.P.F. and Miscellaneous Provisions act, 1952	Yes
13.	Factories Act 1948	Maybe
14.	ESI Act, 1948 (Employees State Insurance Act, 1948)	Yes
15.	Payment of Gratuity Act, 1972	Yes
16.	Employers' Liability Act No. 24 of 1938	Yes
17.	Building and Other Construction Workers Act 1996	Yes
18.	Interstate Migrant Workers Act 1979	Yes
19.	State Specific Shops and Establishment Act	Yes

3.2 Details of Site Visits

During this reporting period, the social and environmental team carried out site visits in month of October and November, 2015 to sub-stations sites under Tranche-4. In October, 10 sub-stations located in Sonitpur and Tinsukia districts were visited, while in November 7 sub-stations located inDibrugarh, Sivasagar and Golaghat districts were covered. The site visit focused sub-station locations identified and to (a) verify geographical location of sub-station with respect to those mentioned in RP and IEE reports; (b) check land acquisition and possession status of sub-station land; (c) assess environmental suitability of the locations; and (d) advice PMU/IA on social and environmental safeguard compliance with ADB SPS 2009. During the site visits meeting was also conducted with respective Deputy General Manager/Assistance General Manager of respective Electrical Circles.

3.2.1 Findings of Site Visit

The observations made during the visits are related to planning stage safeguards activities that needs to be ensured before the sites are handed over to the Contractor. Further, encumbrances and losses envisaged/observed at each sub-station site were to be brought to the notice of EA and IA for addressing in line with ADB's SPS, 2009 and country regulations. The key highlight of site visits finding are listed below:

- The process of land ownership transfer in name of APDCL isyet to start from Circle Office (SDC), Dhekiajuli for Singri, Borsola and Rakhyasmari sub-stations.
- In case of sub-stations proposed in tea estates, the NOC and MOU received by IA mention that the ownership of the land will remain with the tea estate. Further official of IA informed that transfer of ownership in name of APDCL is not required other than getting Tea Estate's MOU. Safeguard consultant suggested ascertaining the legal basis for such arrangement (MOU and NOC) to prevent unwarranted situations at later stage of project, for sub-station site identified in tea estates (Bedeti, Bindukuri, Borjuli, Philobari, Baghjan, Dholla and Powai).
- The 'lease agreement' is set for Gharamara sub-station between IA and respective tea estate. The lease is for a period of 20 years and can be extended further for similar period. The tea estate has also put a condition 'if needed, APDCL will shift sub-station from tea estate land without any objection', which is not favorable in the interest of the project. The legal basis for such arrangement needs to be checked to prevent unwarranted situations at later stage.
- The mutual negotiation with respective private individual owner for sub-station site identified at Gelapukhuri, Gangabari and Napuk village has not progress. The process needs to be expedited to prevent delay in handing over of these three sub-stations site to contractor.
- The NOC/MOU from tea estates of Borhat S/S, Dayang S/S and Naharbari S/S are not available with IA.
- In case of Radhabari substation, the TE Manager has raised his concerned regarding the cutting of shades trees and tea bushes which are likely to come within the ROW of the incoming and outgoing 33kV and 11kV feeder line from the substation. To prevent later stage complication, a decision needs to be taken up by PMU along with IA whether to go forward with construction of sub-station or should look for another suitable site.

• The official of all electrical divisions are not aware about environmental and social safeguards documents and requirements for the project. Capacity building or awareness training is required, especially for officials who are supervising at field during construction

S. No	Sub-project (33/11 kV substation)	Area (Ha)	Ownership	Remarks
Tinsul	kia Electric Circle			
i.	33/11kV Baghjan	0.268	Tea Estate Land	Sub-station site is finalized. IA informed about agreement on Court Paper with Tea Garden Authority has been completed. Possession is under process.
ii.	33/11kV Gangabari	0.10	Private Land	Sub-station site is finalized. Land is being acquired through direct negotiation. Negotiation with owner in progress.
iii.	33/11kV Chabua (Mahakali)	0.134	Private Land	IA informed that sub-station site is shifted to Chabua tea estate. NOC is yet to receive.
iv.	33/11kV Dholla	0.268	Tea Estate Land	Sub-station site is finalized. IA informed about agreement on Court Paper with Tea Garden Authority has been completed. Possession is under process.
v.	33/11kV Gelapukhuri	0.134	Private Land	Sub-station site is finalized. Land rate is still being negotiated.
vi.	33/11kV Philobari	0.268	Tea Estate Land	Sub-station site is finalized. IA informed about agreement on Court Paper with Tea Garden Authority has been completed. Possession is under process.
vii.	3311/kV Powai	0.267	Tea Estate Land	Sub-station site is finalized. IA informed about agreement on Court Paper with Tea Garden Authority has been completed. Possession is under process.
Dibru	garh Electric Circle			
viii.	33/11kV Gharamara	0.267	Private Land	IA informed that sub-station site is identified at Rungliting TE and lease agreement has been signed for 20 years period.
ix.	33/11 kV Namsung	0.201	Tea Estate Land	IA informed about possible shifting of sub-station to Jamirah TE in Bogibeel. However, final confirmation from EA is pending.
Sivasa	agar Electric Circle			
x.	33/11kV Borhat	0.267	Government Land	IA informed that sub-station site is identified at Barasali tea estate area, but administrative approval not available. The NOC from tea estate is yet to be received.
xi.	33//11 kV Napuk	0.267	Private Land	Sub-station site is finalized. Slow progress of negotiation.
Golag	hat Electric Circle			
xii.	33/11kV Radhabari	0.267	Tea Estate Land	Sub-station site is finalized. Gift Deed received from tea estate. IA informed land handed over to APDCL.
xiii.	33/11kV Phulangani (Naharbari)	0.267	Tea Estate Land	Sub-station land identified. NOC is yet to receive from Nahorbari TE.
xiv.	33/11kV Doloujan (Dayang)	0.267	Tea Estate Land	Sub-station site is finalized. NOC is yet to receive from Dayang TE.
Tezpu	r Electric Circle			
xv.	33/11kV Bindukuri	0.267	Tea Estate Land	Sub-station site is finalized. IA informed land handed over to APDCL, but NOC is yet to be received.
xvi.	33/11kV Borjuli	0.133	Government Land	Sub-station site is finalized. IA informed land handed over to APDCL. IA inform that NOC has been received from Borjuli TE.

Table No. 3 3. Land	l Availability Status o	f Sub-Stations
Table 100, 5.5, Lanu	i Avaliavility Status O	ו סטט-סנמנוטווא

S. No	Sub-project (33/11 kV substation)	Area (Ha)	Ownership	Remarks
xvii.	33/11kV Bedeti	0.133	Tea Estate Land	Sub-station site is finalized. NOC received from Behali T.E. The NOC stipulate that the ownership of land remains with BTE management.
xviii.	33/11kV Singri	0.268	Government Land	NOC received. No progress in the process of land ownership transfer. The application is with Circle Office, Dekhiajuli.
xix.	33/11kV Rakhyshmari	0.268	Government Land	NOC received. No progress in the process of land ownership transfer. The application is with Circle Office, Dekhiajuli.
xx.	33/11kV Borsola	0.268	Government Land	NOC received. No progress in the process of land ownership transfer. The application is with Circle Office, Dekhiajuli.
Sourc	e: Implementing agen	cy of APDCL		1

3.3 Issues and Actions Recommended

SI. No	Activity/Key issue	Suggestion	Responsibility	Action Taken till Dec, 2015
i.	Though contract has been awarded, the geographical locations of five sub-stations propose for change still to be confirmed by PMU.	The proposed change of geographical location of sub- projects should be informed to the ADB for information and seeking concurrence.	Implementing Agency	Administrative approval for the site change of Mahakali S/S has been received.
		Resettlement Plan and IEE prepared for the project needs to be updated once location of 5 sub-stations are finalized.	Consultant	After receiving the final approval from PMU, the RP and IEE will be update accordingly.
ii.	For land purchased through negotiation, ADB's SPS 2009 has provision for review by external third party.	PMU coordination is needed in collecting the details of procedures involved in mutual negotiation, negotiation committee details, base rate fixation process, legal basis, affected person, financial mode used for payment, receipts of compensation etc.,	Implementing Agency & Executing Agency	PMU has been requested verbally to advise IA to keep proper documentation of negotiation process, rate fixation, minutes of negotiation etc.
iii.	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	PMU has directed IA for establishing GRC. The ADB Cell, APDCL through their letter dated Dec 29, 2015 has directed its field units to form GRC.
iv.	Keeping regular follow-up on implementation status of environmental and social safeguards in the project.	PMU needs to direct implementing agency and contractor to submit a quarterly progress report and conduct quarterly review meeting.	Executing Agency	Civil works are yet to start.
IV.		The review meeting should also be attended by representatives of the contractor also, along with official of EA, IA and Individual safeguard expert.		Review meeting is still be conducted.
v.	There is no progress at end of Circle Officer, who have been requested for transferring land ownership in name of APDCL for Singri, Borsola and Rakhyasmari sub-stations site.	A joint review meeting with Circle Officer and IA official may be conducted.	Implementing Agency & Executing Agency	AGM inform that the Circle Officer/Mandal are busy in NRC updating work.
vi.	The NOC from respective tea estate is not available for Chabua, Borjuli and Bindukuri sub-stations.	Obtain NOC/MOU from Tea Estate agency.	Implementing Agency & Executing Agency	NOC from Borjuli T.E received. EA is following-up with IA for remaining T.E.
vii.	The NOC of respective tea estate has been obtained for Philobari, Baghjan, Dhola,	EA/PMU to decide on necessity for land ownership transfer and adequacy of NOC/MOU.	Implementing Agency & Executing Agency	PMU is carrying out an internal review of all conditions in the NOC.

SI. No	Activity/Key issue	Suggestion	Responsibility	Action Taken till Dec, 2015
	Powai, Ghoramara, Radhabari, and Bediti sub-stations. But the terms and conditions of NOC is silent about land ownership transfer.			
viii.	The 'lease agreement' is for a period of 20 years between IA and respective tea estate is set for Gharamara sub-station. The tea estate has also put a condition 'if needed, APDCL will shift sub-station from tea estate land without any objection', which is not favorable in the interest of the project.	EA/PMU to decide on necessity for land ownership transfer and adequacy of NOC/MOU.	Implementing Agency & Executing Agency	PMU is carrying out an internal review of all conditions in the NOC.
ix.	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.	A decision needs to be taken up by PMU along with IA whether to go forward with construction of sub-station or should look for another suitable site.	Implementing Agency/ Executing Agency	No Progress.
x.	No progress in mutual negotiation process with individual owners whose land would be acquired for three sub-stations.	Delay in taking possession over land will result to delaying in handing over to Contractor. The EA need to direct IA to expedite the process.	Implementing Agency	No Progress.
xi.	The NOC from respective tea estate is not available for Chabua, Borjuli Bindukuri, Doloujan (Doyang), Pholongani (Nahoarbari) and Borhat sub-stations.	Obtain NOC/MOU from Tea Estate agency.	Implementing Agency & Executing Agency	No Progress

Annexure 3

Office Order

Establishment of Environment and Social Management Unit

ASSAM STATE ELECTRICITY BOARD

NO.ASEB/PMU/ESMU/196/09/01

Dated 10th November'09

OFFICE ORDER

An Environment and Social Management Unit (ESMU) is set up comprising of the following officers within the Project Management Unit (PMU). The ESMU will address, collect, analyze and monitor the social benefit, environment, land acquisition and resettlement and poverty impact of the Transmission and Distribution component in the proposed ADB assisted New Loan.

The members of the Environment and Social Management Unit (ESMU) are as

- 1. Ms. K. Rajkhowa, Land Acquisition officer,* ASEB
- 2. Fazlul Karim, DGM, PMU, ASEB
- 3. G. Chakrabarty, Sr. Manager, PMU, ASEB (Convener)
- 4. Ms. Antara Barua, Sr. Manager, PMU, ASEB
- 5. Manoj Mahanta, Sr. Manager, T&T Division, AEGCL, Nagaon
- 6. Dipankar Deka, Sr. Manager, T&T Division, AEGCL, Rangia
- 7. Alarka Das, Sr. Manager, LAEDCL, Guwahati-1
- 8. Sadhan Ghosh, Sr. Manager, AEGCL, Guwahati-1 9.
- Rutu Gohain, Manager, T&T Division, AEGCL, Mariani
- 10. Balabanta Bsumatari, Manager, T&T Division, AEGCL, Kokrajhar
- 11. Dilip Sarma, Manager, T&T Division, AEGCL, Kahilipara
- 12. Lohit Bora, Asstt. Manager, AEGCL, Guwahati-1
- 13. Mr.Madhusudan Hanumappa, Consultant Environment, Social and Resettlement Expert.

This has an approval of Chairman, ASEB.

Director (PMU)

NO.ASEB/PMU/ESMU/196/09/01(a)

Copy to

A.F.

P.S. to Chairman, ASEB for kind information of Chairman. 1.

Director (PN

ASEB

Dated 10th November'09

Annexure 4

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.

The formation of GRC is pending and the safeguard consultant has advice by communicating PMU to initiate the process. During this reporting period, the PMU through their communication **dated 29.12.2015** has directed the Implementing Agency to start formation of GRC at field level.

GRM - PMU, APDCL Letter to IA

From PMU, APDCL
ASSAM POWER DISTRIBUTION COMPANY LIMITED
Reg. Office: Bijulee Bhawan, Paltanbazar, Guwahati-781 001, Assam CIN: U40109AS2003SGC007242
PROJECT MANAGEMENT UNIT, 4th Floor, Bijulee Bhawan,
Tel. No.0361-2607533, Fax: 0361-2739526, E-mail: pmu_aseb@rediffmail.com
No. APDCL/PMU/APSEIP/ESMU/249/2015-16/ Date: 16-12-2015

То

The Chief Project Manager (PIU-ADB)

APDCL, 2nd Floor, Bijulee Bhawan,

Sub: Formation of Grievance Redress Committee (GRC) for Tranche-4 Sub Projects under APSEIP

This is with reference to the requirement of the Resettlement Plan (RP) prepared for Tranche-4 Sub Projects under ADB assisted Assam Power Sector Enhancement Investment Program (APSEIP).

As per the Project Administration Manual (PAM) _Loan _ 3200-IND, any sort of grievances of the affected people (AP), related to social and environmental issues, are to be redressed at the field office level of implementing agency(IA) within 2 week time. Grievances not redressed by the IA staff (field level) need to be brought to the Grievance Redress Committee (GRC) consisting of members of all the stakeholders for redress the same within 4 weeks time.

The main responsibilities of the GRC are mentioned in the Grievance Redress Mechanisms (Chapter V) of the Resettlement Plan T-4 document which is available on APDCL website. A photocopy of the Chapter of Grievance Redress Mechanisms is enclosed herewith for favour of your reference.

As such you are requested to inform the General Managers of the Zones of APDCL to constitute the GRCs with the representatives as shown below.

1. Concern Project Authority (IA)-GM of the Zone	Chairman of the Committee				
2. Concerned CEO of the Circle, APDCL	Member				
. One official from the o/o the concerned District Magistrate or SDO(Civil) Member					
Concerned Circle Officer or his representative	Member				
5. Concerned Project Manager (IA)	Member				
6. Deputy General Manager(PMU), APDCL	Member				
7. AGM(PMU), APDCL	Member				
8. Land Acquisition Officer(LAO)/Law Officer, APDCL	Member				
9. Affected Persons or representatives	Member				

You are requested to confirm the formation of the GRC by sending photocopies of the GRCs to the undersigned.



Date: 16-12-2015

Director (PMU), APDCL Paltanbazar, Guwahati-1

Memo No. APDCL/PMU/APSEIP/ESMU/249/2015-16/

Copy to

1. The P.S. to MD, APDCL, Bijulee Bhawan, Guwahati-1 for kind information of MDs.

2. The Chief General Manager (PP&D), APDCL, Bijulee Bhawan, Guwahati-1 for favour of kind Director (PMU), APDCL information.

GRM – IA Letter to Field PIU

From PIU, APDEL ASSAM POWER DISTRIBUTION COMPANY LTD. 07-01-16 Registered Office : Bijulee Bhavan , Paltan Bazar, Guwahati - 781001 CIN- U40109AS2003SGCOO7242 Project Implementation Unit Tel No.-0361-2733094; Fax-0361-2739535; email: cpm piuadb@hotmail.com NO. CPM(PIU)/APDCL/Tech-8/Tranche-4/2013-14/117 Dated -29th Dec 2015 To The General Manager Dibrugarh/Jorhat/Rangia/North assam Zones Assam Power Distribution Company Ltd. Sub:- Formation of Grievance Redressal Committee(GRC) for Tranche-4 Projects under APSEIP. 1. Letter No. APDCL/PMU/ASPEIP/ESMU/249/2015-16/ Ref: Sir. In reference to above it is to inform you that as per the requirement of the Resettlement Plan (RP) prepared for Tranche 4 Project under ADB assisted Assam Power Sector Enhancement Investment Program(APSEIP) and the Project Administration Mannual (PAM) for Loan No. 3200 IND, any sort of grievances of the affected people(AP), related to social and environmental issues , are to be redressed at the field office level of Implementing Agency (IA) within 2 weeks time. Grievances not redressed by IA staff (field level) need to be brought to the Grievance Redress Committee(GRC) consisting of members of all the stakeholders for redress the same within 4 weeks time. The main responsibilities of the GRC are mentioned in the Grievance Redress Mechanisms (Chapter V) of the Resettlement Plan_T-4 document which is available on APDCL website. A photocopy of the chapter of Grievance Redress Mechanisms is enclosed herewith for favour of your reference. Accordingly you are requested to constitute the GRC in your ZONE with the representative as shown below 1. Concerned Project Authority(IA)- GM of the Zone Chairman of the Committee 2. Concerned CEO of the Circle, APDCL Member 3. One official from the O/O concerned Dist. Magistrate or SDO(Civil) Memberer 4. Concerned Circle Officer or his representative Member 5. Concerned Project Manager (IA) Membrer 6. Deputy Gemneral Manager(PMU), APDCL Menber 7. Asstt. General Manager(PIU), APDCL Member 8. Land Acquisition Officer(LAO)/Law Officer, APDCL Member 9. Affected Persons or representatives Member You are requested to confirm the formation of GRC by sending photocopies of the GRCs to the undersigned. Thanking you, Yours faithfully Chief Project Manager (PIU) ADB/EAP, APDCL, Guwahati-01 Memo, No. CPM(PIU)/APDCL/Tech-8/Tranche-4/2013-14/117 Dated -29th Dec 2015 Copy to: The P S to MD, APDCL, Bijulee Bhawan, Guwahati-01 for kind information to MD. The CGM, PP&D, APDCL, Bijulee Bhawan, Guwahati-01 for kind information 2 The Director (PMU), APDCL, Bijulee Bhawan, Guwahati-01 for kind information 3 Chief Project Manager (PIU) ADB/EAP, APDCL, Guwahati-01

Annexure -5

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
			2x5 MVA Baghjan	2x5 MVA Baghjan		-	-	
			2x5 MVA Gangabari	2x5 MVA Gangabari		-	-	
			2x5 MVA Gelapukhri	2x5 MVA Gelapukhri		-	-	Remark per Remark - - - - - - - - - - - - - - - - - - - 8/Tranche 4/2013 - - 8/Tranche 2015 - - -
	New 2X5 MVA, 33/11kV Substations	7 Nos.	2x5 MVA Mahakali	2x5 MVA Mahakali	Site shifted to Chabua Tea Estate	-	-	
			2x5 MVA Powai	2x5 MVA Powai		-	(km) as per BIDRemarkLetterNoCPM (PIU)/APDCL/Tech 14/115, Dated:-8/Tranche4/2013-14/115, Dated:01-12- 2015	
			2x5 MVA Philobari	2x5 MVA Philobari		-	-	
			2x5 MVA Dhola	2x5 MVA Dhola		-	-	
LOT 1			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	Remark
	New 33kV Lines	108.35 km	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.	/ line on GI STP : Wolf from Makum ubstation to - 12 12 substation nal equipment			
			Terminal Equipment at Gelapukhuri S/S, 10 km 33 kV line from Barguri 33/11 kV S/S to Gelapukhuri with GI STP	10km 33kV line on GI STP with AAAC Wolf Conductor from Barguri 33/11kV substation to Gelapukhuri substation	-	10	10	

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
				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 poles with AAAC Raccoon	-	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
				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. Tea Estates.	-	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
	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.	-	-	-	
			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	-	-	-	
	Railway track crossing in the 11kV Line;	3 Nos.	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	-	-	-	
			2 x 5 MVA Ghoramara	2 x 5 MVA Ghoramara	Propose for shifting to KAliapani.	-	-	The case is being reviewed by PIU
LOT 2	New 2X5 MVA, 33/11kV Substations	7 Nos.	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		-	-	
			2 x 5 MVA Dolujan	2 x 5 MVA Dolujan		-	-	
			2 x 5 MVA Pholongini	2 x 5 MVA Pholongini		-	-	

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 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
			15 km from Namrup substation and 1 0 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	
	New 33kV Lines	119 km	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 terminal equipment at Golaghat GSS (Tetelitol).	-	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
			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.
			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.	-	-	-	
	New 11kV Lines	7 Nos.	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 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	-	-	-	

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
				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		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.	-	-	-	
	crossing in the 33kV Line;	Construction of one 33 track crossing in the 33 k Golaghat(Tetelitol) GSS t	Construction of one 33 kV Railway track crossing in the 33 kV line from Golaghat(Tetelitol) GSS to Doloujan 2X5 MVA, 33/11 kV Sub Station	1 No, 33kV line Railway track crossing for 33kV line from Golaghat (Tetelitol) GSS to Doloujan 2X5 MVA, 33/11kV substation	-	-	-	
	Railway track crossing in the	5 Nos.	Railway Track Crossing for 11 kV Lakuwa Tea Feeder from New 33/11	1 No Railway Track Crossing for 11 KV	-	-	-	

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
	11kV Line;		kV Maibela substation.	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	-	-	-	
	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,	6 Nos.	2 x 5 MVA Borjuli	2 x 5 MVA Borjuli	-	-	-	
2013	33/11kV	0 1103.	2 x 5 MVA Bindukuri	2 x 5 MVA Bindukuri	-	-	-	

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
	Substations		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	-	-	-	
			20 km 33 kV D/C line to be loop-in loop-out (LILO) between Depota Missamari line to Borjuli.	20km 33 kV D/C line on GI STP with AAAC Wolf Conductor for LILO 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	
	New 33kV Lines	151 Km	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 Rowta GSS.	-	35	35	
			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 RowtaGSStoBorsola 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	-	16	16	

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			
				with terminal equipment at Gohpur GSS.							
			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				
			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				
	New 11kV Lines	125 Km	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	-	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
				Conductor to cover 4 nos. Tea Estates.				
			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 6

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 AAAC 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.

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).
Circle	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.
	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.
Sivasagar	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.
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 KV Namti Substation.	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
	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).
Golaghat Electrical Circle	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 s 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).
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.

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
							Identification of new location is pending.
	New 15 km Tea feerders 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).
	New 19 km feeder from Tengpani	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.
	33/11 kV S/S to feed 4 Nos TE	New 11kV Lines of total length 7km from Tengpani 33/11 kV Substation to feed 4 nos. T.E.	15	7	6.300	Decrease in length by 0.7km.	Route survey completed and drawing is under review in concern Electrical circle.
Tinsukia	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.
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 India	6	2	5.65	Decrease of length by 0.35km	Route survey completed and drawing is under review in concern 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).

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 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 PuronimatiTE	New 11kV,6km Tea Feeder from 33/11 kV Pulibor S/S to PuronimatiTE.	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 BokahollaTEicluding 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 Nakachari S/S to KakajanTE.	New 11kV, 12km Tea Feeder from 33/11 kV Nakachari S/S to KakajanTE	12	12	9.2	Decrease of length by 2.8km	Route survey completed 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.

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 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 Iength by 0.85km.	Route survey completed and drawing is under review in concern 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).
Bongaigaon	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).
Electrical Circle	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).
	New 11 km 11 kV line along with terminal equipement 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).
Barpeta Electrical Circle	New 5 km 11 kV line along with terminal equipement 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).
	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 Namprup- 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
	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.
Sivsagar 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,Diksa m,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			4	4	7.338	Increase in length by 3.338km.	Route survey is completed and is under review in CPM (PIU)
Guwahati Electrical Circle		Conversion of 11kV line by ABC cable at lalungaon	-	_	0		Survey was undertaken and it has been found out

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 Project Scope	in	Implementation Status
								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
		Repairing of Control Room Building including footpath at Basugaon 33/11 kV substation.
	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.
		• Switchyard fencing by PCC wall (below G.L) due to rising 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.
Kokrajhar Electrical Circle	Ambagan 33/11 kV substation	• 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.	 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	 Reconstruction of the damage boundary wall of 33/11 kV substation at Agomani.
	Bilasipara 33/11 kV substation	Reconstruction of damage boundary wall at 33/11 kV substation at Bilasipara
		Providing internal and external water supply, Deep tube well at Bhalukdubi 33/11 kV substation.
Bongaigaon Electrical Circle	Bhalukdubi 33/11 kV substation	Civil works of Bhalukdubi 33/11 kV substation including internal electrification.
5 5	Mornoi 33/11 kV substation	Providing internal and external water supply, Deep tube well at Mornoi 33/11 kV substation.
	Balijana 33/11 kV substation	Repairing of Control Room Building including electrification work at Balijana 33/11 kV substation.
		Construction of Internal Boundary Wall at Zoo Road 33/11 kV substation.
	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.	Renovation of Control Room Building at Sonapur 33/11 kV substation.
Guwahati Electrical Circle	Garbhanga 33/11 kV substation	Providing boundary wall and gate at Garbhanga 33/11 kV substation
		 Construction of approach road with repairing & renovation of Control Room Building at Paltan Bazar 33/11 kV substation
	Paltan Bazar 33/11 kV	Construction of boundary wall including repairing & renovation of old damaged wall around Paltan Bazar
		33/11 kV substation Switchyard.

Electrical Circle	Name of sub-station	Activities in IEE
	Bargang 33/11 kV substation.	• Construction of well foundation with hum pipe for 33 kV Bargang-Monabari feeder river crossing.
Tezpur Electrical Circle	Bargang 55/11 KV substation.	• Construction of boundary wall at Bargang 33/11 kV substation.
	Pavoi 33/11 kV substation	Construction of boundary wall at Pavoi 33/11 kV substation.
	Chariali 33/11 kV substation	• Construction of boundary wall at Chariali 33/11 kV substation.
Lakhimpur Electrical Circle	Narayanpur 33/11 kV substation	Water supply and construction of water filter for Narayanpur 33/11 kV substation
	Jonai 33/11 kV substation.	• Water supply and construction of water filter for Jonai 33/11 kV substation.
		• Construction of (Remaining portion) of retaining wall along with boundary fencing by the West, South & North side of MaliniBeel 33/11 kV substation.
	MaliniBeel 33/11 kV substation.	• Earth filling (Remaining portion) within MaliniBeel 33/11 kV substation.
	MainiBeel 33/11 KV substation.	• Construction of approach road and cement concreting over the open space of switchyard for easy
		movement of machinary at Malinibeel 33/11 kV substation.
		Construction of heavy duty iron gate of MaliniBeel 33/11 kV substation
	Srikona 33/11 kV substation.	Construction of boundary wall around the Srikona 33/11 kV substation.
Contrast Flantained Circle	Meharpur 33/11 kV substation	• Renovation of boundary wall of divisional store as well as boundary fencing of switchyard of Meharpur 33/11 kV substation.
Cachar Electrical Circle	Udharbond 33/11 kV substation.	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	• Construction of approach road from PWD road to switchyard of Kalain 33/11 kV substation.
		Construction of approach road of Katigorah 33/11 kV substation
		• Switchyard gravelling of Katigorah 33/11 kV substation.
	Katigorah 33/11 kV substation	• Earth work in switchyard of Katigorah 33/11 kV substation.
		Construction of boundary wall of Katigorah 33/11 kV substation.
		Construction of approach road to Control Room Building at Katigarha 33/11 kV substation.
		• Earth filling at Katigarh 33/11 kV substation area.
		 Construction of approach road to the newly upgraded Bordubi 33/11 kV substation.
	Bordubi 33/11 kV substation.	 Construction of boundary wall for upgraded Bordubi 33/11 kV substation.
Dibrugarh Electrical Circle:		Renovation/repairing of old Control Room Building at Bordubi 33/11 kV substation.
	Tengakhat 33/11 kV substation	Earth filling for upgrade Tengakhat 33/11 kV substation under Dibrugarh Electrical
		• Circle.
		Repairing of Control Room Building at Makum 33/11 kV substation.
	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.
Tinsukia Electrical Circle	Chabua 33/11 kV substation.	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.	Construction of boundary wall for upgraded Dinjan 33/11 kV substation.
	Magherita 33/11 kV substation.	Construction of boundary wall for upgraded Magherita 33/11 kV substation.
	Doomdooma 33/11 kV substation.	Construction of boundary wall for upgraded Doomdooma 33/11 kV substation.

Electrical Circle	Name of sub-station	Activities in IEE
	Tinsukia 33/11 kV substation	Construction of approach road to the newly upgraded Tinsukia 33/11 kV substation.
	Digboi 33/11 kV substation.	Construction of approach road to the newly upgraded Digboi 33/11 kV substation.
Jorhat Electrical Circle: Civil	Bokakhat 33/11 kV substation	Repairing of Control Room Building at Bokakhat 33/11 kV substation
Works	Kamarbandha 33/11 kV substation	Construction of boundary wall at Kamarbandha 33/11 kV substation.
		Construction of security fencing at Kamarbandha 33/11 kV substation.
	Dimow 33/11 kV substation	Construction of boundary wall at Dimow 33/11 kV substation.
	Geleki 33/11 kV substation	Construction of boundary wall at Geleki 33/11 kV substation
Sivasagar Electrical Circle	Geleki 35/11 kV substation	Construction of approach road to Geleki 33/11 kV substation
Sivasagai Liectrical Circle	Sonari 33/11 kV substation	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	• 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 BOQrates fordifferent types of small items, and decision 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. 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 - Kasubil Line	Construction of Switching facility for interconnection of Rowta - Kasubill line and Udalguri - Kasubil Line	Switching facility for interconnection of 33kV Rowta - Kasubill line and 33kV Udalguri - Kasubil 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)

Electrical Circle	Name of Substation	Activities as per IEE	Activities as per Bid document	Remarks
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.
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	Doomdooma 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.