



Initial Environment Examination

Project Number: 41614-036
May 2017
(Addendum)

IND: Assam Power Sector Enhancement Investment Program - Tranche 4

Subproject : Addendum to IEE- for 33/11 KV Chabua (Mahakali) sub-station

Submitted by
Assam Power Distribution Company Limited, Guwahati

This report has been submitted to ADB by the Assam Power Distribution Company Limited, Guwahati and is made publicly available in accordance with ADB's Public Communications Policy (2011). It does not necessarily reflect the views of ADB. This Report is an addendum to the IEE report posted in August 2014 available on <https://www.adb.org/projects/documents/assam-power-sector-enhancement-investment-program-tranche-4-iee>.

This addendum to initial environment examination report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

Asian Development Bank

NK/JB



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/Tr-4/235/2014/Pt-I/158

Date : 18-05-2017

To,

✓ The Country Director,
Indian Resident Mission, ADB.
4, San Martin Marg, Chanakyapuri.
New Delhi -110 021



**Subject : Submission of Addendum of Initial Environmental Examination Report for
33/11kV Chabua (Mahakali) sub-station under Tranche -4, Loan No. 3200 – IND.**

Sir,

Please find enclosed herewith the Addendum of Initial Environmental Examination Report for 33/11kV Chabua (Mahakali) sub-station under Tranche -4, Loan No. 3200 -IND for your needful action from your end.

Thanking you

Yours faithfully,

Handwritten signature and date 13/5/17

Director,
PMU/APDCL



Hand copy recd.

Addendum

Initial Environmental Examination

(Shifting of 33/11kV substation location from Mahakali to Chabua Tea Estate)

Loan Number: 3200-IND

Tranche 4

IND: Assam Power Sector Enhancement Investment
Program – Tranche 4

**Prepared by: Assam Power Distribution Company Limited
Government of Assam**

The addendum initial environmental examination is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

Contents

A. INTRODUCTION	3
B. APPLICABLE ENVIRONMENTAL POLICIES AND OTHER LEGISLATIONS	4
C. SUB-PROJECT DESCRIPTION	4
D. APPROACH FOR ADDENDUM PREPARATION	6
E. DESCRIPTION OF ENVIRONMENT	6
F. POTENTIAL ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES.....	7
G. ENVIRONEMNTAL MANAGEMENT.....	8
H. INSTITUTIONAL REQUIREMENTS AND ENVIRONMENTAL MONITORING PLAN	10
I. GRIEVANCE REDRESS MECHANISM	10
J. PUBLIC CONSULTATION AND INFORMATION DISCLOSURE	10
K. CONCLUSION	11

A. INTRODUCTION

1. The Government of Assam (GoA), through the Government of India (GoI, the Borrower) has requested the Asian Development Bank (ADB) for a loan funding through the Multi-tranche Financing Facility (MFF) which was approved on 18 November 2009. The Assam Electricity Grid Corporation Limited (AEGCL) and the Assam Power Distribution Company Limited (APDCL) are the Executing Agencies (EAs) for the MFF¹. This project will be the Tranche 4 from the MFF with an estimated total amount of \$50million.

2. GoA unbundled the former Assam State Electricity Board (ASEB) into three companies: Assam Power Generation Corporation Limited (APGCL), Assam Electricity Grid Corporation Limited (AEGCL), and Assam Power Distribution Company Limited (APDCL). The APDCL will be the Implementing Agency (IA) for Tranche 4. APDCL proposes to include the following components for Tranche 4:

- a. Physical works in the sub-transmission and distribution system such as additional 33/11 kV lines and substations to ensure that the system is adequate and reliable to meet the growth demand and the energy requirement.
- b. Energy efficiency measures and loss reduction measures to be undertaken for reduction of both commercial as well as technical losses mainly at low tension (LT) level. Also, reduction of length of 11 kV lines which are the primary cause of technical losses.
- c. For loss reduction, improvement in quality of power and stability of distribution grid of APDCL by providing segregated feeders to Tea Estates (T.E.) for maximum revenue generation.
- d. Introduction of Quick Response Operation and Maintenance (O&M) System in all Electrical Divisions and sub divisions of APDCL to ensure reliability and quality power with a view to increase revenue.
- e. Implementation of IT Modules to cover part of the high value consumers of major towns of Assam to improve revenue by reduction in commercial loss.
- f. Setting up of Independent Meter Testing Laboratory at Jorhat Engineering College.

3. As required by ADB's Safeguard Policy Statement 2009 (SPS 2009), an environmental assessment and review framework (EARF) was prepared for the MFF approved in 2009 to provide guidance on environmental screening, assessment, institutional arrangements, and procedures to be followed for the succeeding tranches in the MFF where components have not yet been fully defined and locations not yet identified. The EARF ensures that succeeding tranches comply with SPS 2009 and the applicable national laws and regulations.

4. According to SPS 2009, Tranche 4 is environment Category-B requiring an Initial Environmental Examination (IEE). Following SPS 2009 and the EARF, an IEE was prepared for Tranche 4. As the EA for Tranche 4, APDCL is in charge of preparing the applicable environmental documentation, implementation and monitoring of Tranche 4 following the requirements of SPS 2009 and the approved EARF for the MFF.

5. This report is proposed as addendum to the APDCL's original Tranche-4 IEE report that was approved by ADB in August 2014. The addendum is on account of shifting of proposed sub-station at Mahakali site to Chabua site in Dibrugarh district. The report would capture information on the environmental consequences associated with the new location. This report is also a due diligence report and based on the assessment of the environmental impacts it has been observed that no further corrective actions are required to be undertaken.

¹The Assam State Electricity Board (ASEB) was legally dissolved in 2013. Subsequent to this action, AEGCL and APDCL were designated as EAs for the MFF

B. APPLICABLE ENVIRONMENTAL POLICIES AND OTHER LEGISLATIONS

6. The Ministry of Environment, Forest and Climate Change, Gol, vide its Notification No. S.O. 1533 dated 14-09-2006, reengineered the EIA process in India and also decentralized some powers and made provision to constitute the State Level Environment Impact Assessment Authority (SEIAA) and the State Level Expert Appraisal Committee (SEAC) for performing functions under the said notification.

7. Aside from SPS 2009, the project needs to comply with the requirements provided by the Gol acts, rules, notifications, standards, and policies and other state level guidelines that apply to the project. The relevant regulations and other legislations are given in **Annexure I** of original IEE report, August 2014 are applicable for this subproject.

C. SUB-PROJECT DESCRIPTION

8. As per original IEE, the sub-station site identified was identified at private land in Mahakali village in Tinsukia district. This sub-station also include erection of 10km length of 33kV sub-transmission line from Napukhuri 33/11 kV s/s, and four feeding points to cover four tea estates through erection of 7km 11kV distribution line. During implementation stage, it has been found that Mahakali area can be fed through newly constructed 33/11kV Napukhuri s/s under Tranche-3 of the MFF and delays on account of negotiation with land owner for acquiring parcel of land. Consequently, shifting of sub-station's site from Mahakali was proposed by Project Implementing Unit (Annexure I-A), which has been also approved by ADB (Annexure I-B).

9. The new sub-station site (Fig. 1) is identified at Chabua village in Dibrugarh district. The land for sub-station construction will be provided by the Chabua Tea Estate without any cost and it is located within the tea estate premise close to tea factory. The land area of 0.134ha has been earmarked for construction of sub-station and it is vacant tea estate land (Fig 2). The incoming line i.e. 33kV to this sub-station will be through 17.5km length of 33kV sub-transmission line from 33/11kV Panitola s/s. The sub-station proposed in Chabua villages propose to consist four new feeding (11kV D/L) points. The details of 11kV feeder lines are in Table 2.



Fig. 2: View of sub-station site @ Chabua Tea Estate

Table 1: Details of New Sub-station Site

S.No	Sub-project	Village/Tehsil	District	Region	Area (Ha)	Land Ownership
1	33/11kV Chabua s/s	Chabua/Chabua	Dibrugarh	Upper Assam Region	0.134	Chabua Tea Estate

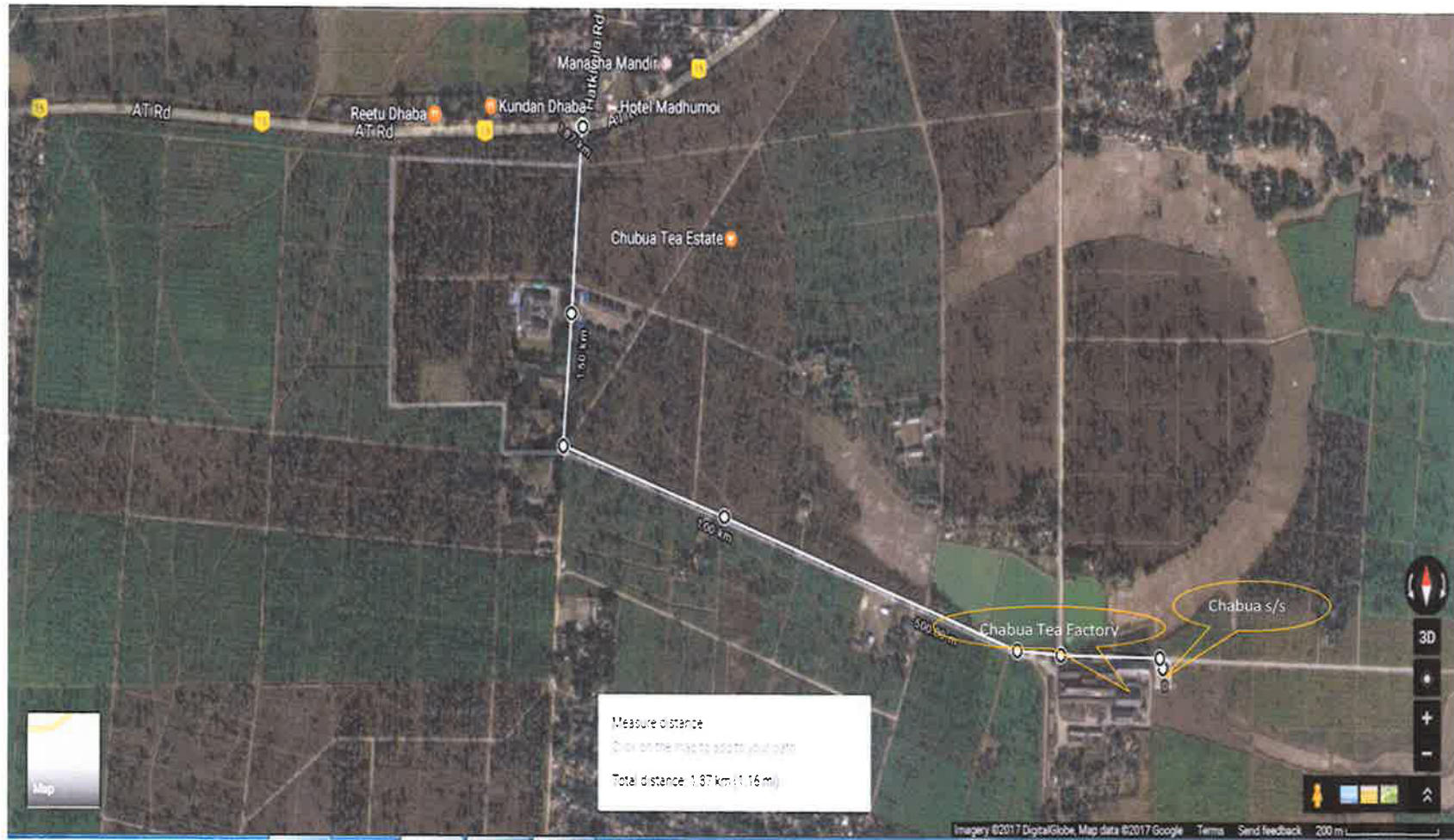


Fig. 1: Location Map of 33/11kV Chabua sub-station

Table 2: Details of Associated 33kV line and 11kV Distribution Lines²

S.No	Name of sub-project	Line Length (km)	Right of Way (m)	No. of Poles	Area of each pole (sq.mt)	Name of villages /T.E covered	Tehsil/ District covered	General Profile of the line (cropping pattern/tea estate/ forest etc.)	Whether alignment is final or not?
33kV Line									
1	New 33kV line from Panitola 33/11kV s/s to Chabua s/s	17.5	15	525	1	Gondhia village , Nahanami village, Zalpania T.E., Pulnugn Village, Chabua T.E	Chabua/ Dibrugarh	Tea Estate and Paddy Field	Surveyed
11kV Line									
1	New Pulunga 11kV feeder	2.489	7	82	1	Chabua T.E. and Pulunga	Chabua/ Dibrugarh	Tea Estate	Surveyed
2	New 11kV town feeder	1.89	7	54		Chabua T.E and Chabua Town 1		Tea Estate	
3	New 11kV industry and Hatiali Tea Feeder	10.567	7	346		Chabua T.E., Hatiali T.E, Sialkati T.E.		Tea Estate	

D. APPROACH FOR ADDENDUM PREPARATION

10. The Addendum to original IEE report (August, 2014) has been prepared base on site visits that were done in months of July and September 2016 by Environmental and Social team supporting the Project Management Unit, APDCL. The observations made during the visit, informal one-to-one meeting with tea estate manager & officials of implementing agency, observations of environmental attributes and identification of sensitive receptors within vicinity of sub-station site. The information gathered during site visit has been used to complete the Rapid Environmental Assessment (REA) Checklist (Annexure II), which assisted in anticipating potential impacts on environment due to construction of sub-project and environmental category of sub-project.

E. DESCRIPTION OF ENVIRONMENT

11. The sub-project is located in the district of Dibrugarh. The description of environment for this district have been captured in Section 3.0 (description of environment) of original IEE report prepared in August 2014, which adequately capture the environmental setting in the district and may be referred. The baseline information for air, noise, soil, and water quality have not been provided in the original IEE report. However, the monitoring of aforementioned environmental attributes will be conducted as per the provided frequency and parameters in the original IEE report and the detailed results will be provided in the respective Environmental safeguard monitoring report.

12. The site specific environmental features with reference to sub-station location is provided in Table 3, which would be used to assess the impact on environment due to the sub-project.

² Total four number of 11kV feeder is coming out of 33/11kV Chabua sub-station, out of which details of three number of 11kV lines are provided in table. The fourth feeder is dedicated to Chabua Tea Factory that located adjacent to the 33/11kV substation and is for a length of 100mts.

F. POTENTIAL ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

13. The screening of potential environmental impacts due to the sub-project is based on criteria adopted and provided in originally approved IEE report under the Chapter 4.0. The REA checklist prepared for the sub-project forms the basis for assessment of potential environmental impacts and suggesting mitigation measures.

14. The existing environmental characteristic and features of new site for proposed 33/11kV Chabua sub-station is provided in Table 3.

Table 3: Location Analysis for Chabua sub-station

Sl.No.	Particulars	Status
1.	Land Details	
1a	Area of land	0.134ha (1 Bigha)
1b	Slope/Plain Land	Plain Land
1c	Approximate Amount of land cutting required	Not applicable
2.	Owner Ship of land (Private / Forest/ Other Govt. Department/ Other)	Tea estate
3.	Private land (in ha.)	
3a	(i) Agriculture :- • Irrigated • Non – irrigated	Not Involved
3b	(ii) Non - Agriculture/ Private Waste land / barren.	Non-agriculture land belonging to Chabua Tea Estate
3c	(iii) House or Building: • Residential • Non –Residential	Not Involved
4.	Distance from Nearest (With name)	
4a	River (Name/Distance)	434.31 meter(Arial)-(Seasonal Stream)
4b	Highway	NH 37(old)/NH 15(Now)- 1.86 km approx.
4c	Forest Area	Aerial distance Dibru Saikhowa National Park (Fig 3) – 16 km (Approx.)
4d	Village / town	Chabua - 3 km
4e	Market/Area of Economic Activity	Existing Tea Estate's Road
5.	Road accessibility	Pucca Road
6.	EHV Line Passing Near By (Distance)	No EHV line
7.	HT line Passing Near By	No HT line
8.	No. of Forest Trees :- • Trees to be felled • Trees to be lopped	Not involved
9.	No. of private trees	Not involved
9a	(i) Fruit Trees: • Trees to be felled • Trees to be lopped	Not involved
9b	(ii) Non - Fruit Trees: • Trees to be felled • Trees to be lopped	Not involved
10.	Distance from mountainous area	Located in flat terrain (approx. 30km)
11.	Distance from cultivated area	70mt

Sl.No.	Particulars	Status
12.	Altitude of sub-station	106mt (Chabu Village)
13.	Nearest distance from airport/national & international boundaries	Arial distance <ul style="list-style-type: none"> • Dibrugarh Airport - 15.16km (Approx.) • Arunachal Pradesh – Assam State Boundary – 40 km (approx.) • India – china International Boundary – 190.6 km (approx.)
14.	Distance from nearest religious or archaeological sites	The nearest temple is located 2.5 km from sub-station site. This is not an archaeological site.

Table 4: Land Details of Chabua Sub-station

Village / Town Name	Tehsil Name	District Name	Land for sub-station identified/ finalized?	Total Land Area Required (ha)	Ownership of Land	Type of Land	Status of Land Acquisition	No of Affected Households/Owner	Number of affected Indigenous Peoples Household or Owners (if any)
Chabua	Chabua	Dibrugarh	Finalised	0.134	Private (Chabua TE)	Vacant Land	Land handed over by Tea Estate (Memorandum of Understanding)	Chabua Tea Estate	Not involved

15. The change in sub-station site and scale of construction being small will not change the environmental category of the project i.e. Category-B. The potential environmental impacts anticipated is mainly due to activities during construction of sub-station and has been specifically capture in Section 4.0 of original IEE report, which are also valid during construction of Chabua sub-station.

16. The shifting of sub-station site to Chabua has avoided acquisition of private land, thereby, prevented impacting people, which otherwise was identified as one of potential impact in original IEE report. Hence, the Executing Agency has further minimize the impact due to the sub-project and averted risk associated to the project due to delayed in negotiation process for purchase of land.

G. ENVIRONEMNTAL MANAGEMENT

17. The original IEE report has suggested appropriate measures to mitigate impacts associated with construction activities. An Environmental Management Plan has been prepared for the project that discusses the anticipated impacts, monitoring requirements, and development of mitigation measures with respect to the following stages: (i) pre-construction, (ii) construction, and (iii) operation and maintenance.

18. The impacts associated with the sub-project is mainly due to activities during construction stage. Hence, the Environmental Management Plan prepared for the project is adequate to mitigate the impacts due to sub-project.



Fig 3: Map showing Chabua sub-station proximity to Dibru Saikhowa National Park

H. INSTITUTIONAL REQUIREMENTS AND ENVIRONMENTAL MONITORING PLAN

19. The institutional arrangement has been agreed for the project and Environmental and Social Management Unit was created to support Project Management Unit for implementing environmental and social safeguards measures. PMU has designated one Assistant Manager as in charge of ESMU, who has oversight responsibilities for monitoring all subprojects in areas such as environmental, R&R and social safeguards. The duties of the ESMU will include at a minimum (i) oversight of field offices and construction contractors for monitoring and implementation mitigation measures. (ii) Liaising with the field officers and contractors and seeking their help to solve an environmental related issue of subproject implementations and (iii) preparation of environmental monitoring reports every 6 months (as required by ADB). ESMU is supported by individual Environmental and Social Safeguard consultant and assist in coordinating with PIU for monitoring as well as designing appropriate mitigation measures to address as environmental and social safeguard issues.

20. The minimal provision for environmental monitoring program was not provided in the original IEE report prepared in August 2014. However, the same was provided in Clause 9.8 (contractor's responsibility) under Section 8 (Special Conditions of Contract) of the Bidding Document.

21. Presently, project is in implementation stage and the construction work has started and Executing Agency is monitoring compliance to environmental safeguard requirements in the Loan Agreement. The same has been reiterated to the contractor by Project Implementation Unit. The compliance action status for minimal provision for environmental monitoring is provided in Table 5.

I. GRIEVANCE REDRESS MECHANISM

22. The formation of GRM and GRC at project level is one of the requirement in Project Administration Manual and Loan Agreement. Till now, GRC committee has been constituted in Guwahati Zone and is in progress in remaining zones. APDCL is following with concerned Chief Executive Officer for formation of Grievance Redressal Committee (GRC) in their respective circle.

23. Till date no grievance has been reported with respect to the sub-project. Any grievance from any person will be addressed in set time frame and will be properly documented.

J. PUBLIC CONSULTATION AND INFORMATION DISCLOSURE

24. Site visit has to Chabua sub-station was done on November 2016 to check adequacy of the site and consultation (Annexure III) with representative of Chabua Tea Estate on May, 2017. The consultation meeting was attended by officials from PMU and field implementing agency, and coordinated by Environmental & Social team. The consultation was limited to meeting with representative of tea estate to understand their view and concerns with regard to land for sub-stations and impacts associated with stringing of 33kV and 11kV lines. The key points of the consultation are:



- Chabua TE authority shown their support for the sub-station and were happy for the dedicated feeder line being provided to their tea factory.

- They requested to consider the safety and risk associated during operation and maintenance of the LT line due to parallel alignment of new 33kV and 11kV distribution lines. The official of implementing agency informed about the possible measures that can be taken up, but will be taken up after completion of sub-projects.
- Manager of Chabua TE informed that they would provide all support for pruning and trimming of trees within the RoW of the 33kV and 11kV line.
- Managers requested for expediting the progress of sub-project.

25. The addendum to IEE shall be disclosed and made available to the public.

K. CONCLUSION

26. This addendum to IEE is based upon the environmental assessment and review framework (EARF) which is consistent with the ADB's Safeguard Policy Statement (SPS) 2009. The subproject is classified as category "B" for environmental and does not require further environmental impact assessment. The original EMP prepared for the project is valid and the same is recommended for adoption during implementation stage.

Table 5: Minimal Provision for Environmental Monitoring (Compliance Action)³

Project Stage	Mitigation Measure	Parameters to be Monitored	Location	Measurements	Frequency	Responsibility	Cost	Compliance Action
Pre-Construction	Route survey to define alternative alignments	Possible encroachment on reserved forests	All transmission and substation sites	Field mapping with Global Positioning System (GPS) equipment	1-time survey to finalize design	APDCL/PMU through route survey contractor	n/a	Route survey is being done by the Contractor and submitted for IA approval.
Construction	Dust equipment emissions erosion and noise control waste management	Incorporation of appropriate clauses in construction contracts	All construction contracts for all substation and transmission sites	Field inspection to ensure that appropriate measures are implemented and facilities are installed	1 time per month	APDCL and PMU to include in bidding documents. ADB to verify through review of bidding documents ⁴	Included in construction contract (estimated at <0.5% of total contract value)	Contractor has done monitoring at six sub-stations in Lot -3. However, it is yet to happened for Chabua sub-station.
	Dust equipment emissions, and erosion control Waste management	Particulate Matter ⁵ -10 (PM10), Particulate Matter-2.5, Noise, Water pH, dissolved oxygen (DO), biochemical oxygen demand (BOD), total suspended solids (TSS), hydrocarbon and PCBs ⁶ Solid waste generation and disposal	All substation sites and Selected transmission lines	"Grab" samples for air and water Spot check for noise using portable monitoring device Spot check for solid waste generation and disposal	Every 6 months beginning with initial activity for total of 18 months. Monitoring will be extended if necessary Spot checks for solid waste activates	Contractors to implement PMU staff to provide oversight via regular field inspections. ADB to audit during project review missions APDCL has responsibility for solid waste management		
Operations and Maintenance	Dust equipment emissions, and erosion control Waste management	Same parameters as during construction period	All substations and transmission lines	Spot checks based on Visual inspections and any complaints	As necessary based on inspections and complaints	APDCL through PMU ADB to audit during project review missions		Shall be monitored at time of operation stage.

ADB = Asian Development Bank, APDCL = Assam Power Distribution Company Ltd., BOD = biochemical oxygen demand, DO = dissolved oxygen, PCB = polychlorinated biphenyls, PMU = project management unit, SPM = suspended particulate matter, TSS = total suspended solids.

Source: Asian Development Bank assessment.

³ Monitoring of issues related to compensation of landowners for land acquisition will be included in the resettlement plan.

⁴ ADB will review documents and provided no objection at each stage of bidding, contract evaluation and contract award.

⁵ Originally, Suspended Particulate Matters was indicated for monitoring air quality. However, this has been replaced with PM₁₀ and PM_{2.5} considering NAAQS, 2009 of CPCB.

⁶ These parameters should be monitored if warranted based on visual observations or complaints.

Administrative Approval Letter
(Shifting of Proposed 33/11kV Mahakali Substation to Chabua 33/11kV Sub-station)



ASSAM POWER DISTRIBUTION COMPANY LTD.
Registered Office : Bijulee Bhawan , Paltan Bazar, Guwahati - 781001

CIN- U40109AS2003SGCOO7242

Project Implementation Unit

Tel No.-0361-2733094; Fax-0361-2739535; email: cpm_piadb@hotmail.com

NO. CPM(PIU)/APDCL/Tech-8/Tranche-4/2013-14/115

Date: 1st Dec 2015

To

The Director (PMU)
APDCL, Bijulee Bhawan
4th Floor, Guwahati-01

Sub:- Shifting of proposed 33/11 KV 2X5 MVA Mohakali SS under ADB Tranche 4 Project from Mohakali to Chabua.

Ref:- 1. Letter No. DGM/TEC/APDCL/T-52/ADB-Tr 4/15/ 1326 dtd, 12.10.2015.
2. Letter No. CGM(D)/UAR/APDCL/ADB/Tr-4/2015/29 dtd, 03-11-2015


Please refer to the above. CEO, Tinsukia Electrical Circle proposed for shifting of location for proposed 33/11 KV 2X5 MVA Mohakali SS under tranche-4 of ADB project from Mohakali to Chabua because of non availability of suitable land at Mohakali and as because the load of Mohakali area can be fed from newly constructed 2x 10 MVA,33/11 KV SS at Napukhuri, Tinsukia under Tranche -3 project of ADB. The parameter of 33KV and 11 KV line are within approved parameter and the shifting of location to Chabua is approved by MD, APDCL.

The benefits of shifting the location of Mohakali SS to Chabua is as given below:

1. Land will be provided by Chabua TE authority.
2. The chabua TE will be able to draw power at 33 KV Line.
3. No. Rly track crossing will be required as in the case of Mohakali location.
4. Length of 11 KV lines will be minimised.
5. 33 KV incoming line can be drawn from both 33/11 KV Panitola SS & existing Madarkhat 33/11 KV SS.

This is for your information and necessary action.

Yours faithfully,


Chief Project Manager (PIU-ADB)
APDCL, Bijulee Bhawan, Paltanbazar
Guwahati-01.

Memo. No. CPM(PIU)/APDCL/Tech-8/Tranche-4/2013-14/115(a-e)

Date: 1st Dec 2015

Copy to:

1. The P S to MD, APDCL for kind appraisal of MD, APDCL, Bijulee Bhawan, Ghy-01
2. The CGM(PP&D), APDCL, Bijulee Bhawan, Ghy-01 for kind information
3. The CGM(D), UAR, APDCL, Bijulee Bhawan, Ghy-01 for kind information.
4. The General Manager, Dibrugarh Zone, APDCL, Dibrugarh for information & n/action
5. M/S NECCON Power & Infra Limited for information & n/action.


Chief Project Manager (PIU-ADB)
APDCL, Bijulee Bhawan, Paltanbazar

Annexure I (B)

ADB Approval - Email Communication

(Shifting of Proposed 33/11kv Mahakali Substation To Chabua 33/11kv Substation)

Rediffmail Plus

Mailbox of pmu_aseb@rediffmail.com

From: ayusupov@adb.org
To: Director Pmu <pmu.assampower@gmail.com>
Subject: **Re: Fwd: Shifting of proposed 33/11kv,2x5MVA substation under loan no 3200-IND**
Date: Wed, 27 Apr 2016 14:00:11 IST
Cc: cpm_piadb <cpm_piadb@hotmail.com>, hkebayash@adb.org, yunzhou@adb.org, ylang@adb.org, haustria@adb.org, "A. K. Das" <pmu_aseb@rediffmail.com>

Dear Mr. Das,

Please note that the attached letter is addressed to Director, PMU.

With regards to the change of location please note that APDCL should undertake necessary safeguard due diligence for the proposed location and assess potential environmental and social impacts. The project's IEE and RP need to be updated.

Regards,

Aziz Yusupov
Energy Specialist
Energy Division
South Asia Department
Asian Development Bank
Follow us on [Facebook](#) and [Twitter](#)
Tel: +632 632 6707
www.adb.org



From: Director Pmu <pmu.assampower@gmail.com>
To: ayusupov <ayusupov@adb.org>, cpm_piadb <cpm_piadb@hotmail.com>
Date: 27/04/2016 04:07 PM
Subject: Fwd: Shifting of proposed 33/11kv,2x5MVA substation under loan no 3200-IND

Dear Mr Aziz,

ADB's approval was requested for shifting of location of 33/11kv transformer from Mahakali to Chabua under Loan 3200-IND. However approval of ADB is not received yet. Please take

Rapid Environmental Assessment (REA) Checklist

Instructions:

(i) The project team completes this checklist to support the environmental classification of a project. It is to be attached to the environmental categorization form and submitted to the Environment and Safeguards Division (RSES) for endorsement by Director, RSES and for approval by the Chief Compliance Officer.

(ii) This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB's (a) checklists on involuntary resettlement and Indigenous Peoples; (b) poverty reduction handbook; (c) staff guide to consultation and participation; and (d) gender checklists.

(iii) Answer the questions assuming the "without mitigation" case. The purpose is to identify potential impacts. Use the "remarks" section to discuss any anticipated mitigation measures.

Country/Project Title:

India/Assam Power Sector Enhancement Investment Program, Tranche -4 (IND-3200)

Sector Division:

Building and Township

Screening Questions	Yes	No	Remarks
A. Project Siting Is the project area adjacent to or within any of the following areas?		✓	Project area is not in the vicinity of any such area.
▪ Underground utilities		✓	
▪ Cultural heritage site		✓	
▪ Protected Area		✓	
▪ Wetland		✓	
▪ Mangrove		✓	
▪ Estuarine		✓	
▪ Buffer zone of protected area		✓	
▪ Special area for protecting biodiversity		✓	
▪ Bay			
B. Potential Environmental Impacts Will the Project cause...			
▪ Encroachment on historical/cultural areas?		✓	No historical/cultural area or monument is present near project area.
▪ Encroachment on precious ecology (e.g. sensitive or protected areas)?		✓	Project area is not present near any sensitive area.
▪ Impacts on the sustainability of associated sanitation and solid waste disposal systems?		✓	No such impact will occur.
▪ Dislocation or involuntary resettlement of people?		✓	Proposed project area is present in a tea estate. No dislocation or resettlements will occur.

Screening Questions	Yes	No	Remarks
▪ Disproportionate impacts on the poor, women and children, Indigenous Peoples or other vulnerable groups?		√	No such impact will result.
▪ Accident risks associated with increased vehicular traffic, leading to loss of life?	√		Movement of vehicles for transportation of construction material will be from existing roads, which will increase the traffic for short duration of time.
▪ Increased noise and air pollution resulting from increased traffic volume?	√		Noise and air pollution from vehicular movement will occur only for short duration of time and will be temporary.
▪ Occupational and community health and safety risks?	√		Occupational health and safety risks may occur due to improper management of sanitation facility and construction material store in project area.
▪ Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	√		No radiological hazards are expected. However chemical hazard can result due to mismanagement of transformer oil. Biological and physical hazard can occur due to improper sanitation and storage facilities respectively.
▪ Generation of dust in sensitive areas during construction?		√	Sensitive areas are not present in vicinity of project area thus no such impact will occur.
▪ Requirements for disposal of fill, excavation, and/or spoil materials?	√		Disposal facility will be required for material excavated for construction of transformer base.
▪ Noise and vibration due to blasting and other civil works?	√		Blasting is not involved in construction of substation thus not such impact will result. However due construction phase noise level may increase due to working of machinery.
▪ Long-term impacts on groundwater flows as result of needing to drain the project site prior to construction?		√	No such impact will occur.
▪ Long-term impacts on local hydrology as a result of building hard surfaces in or near the building?		√	No such impact will occur.
▪ Large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		√	No such impact will occur. Only five-six labor will be required during construction phase.
▪ Social conflicts if workers from other regions or countries are hired?		√	Workers and labor will be hired from local and regional areas to increase the employment opportunity.
▪ Risks to community safety caused by fire, electric shock, or failure of the buildings safety features during operation?	√		Proper measures, sign boards and public consultation can decrease the risk to community health and safety if any failure occurs during operation stage.

Screening Questions	Yes	No	Remarks
<ul style="list-style-type: none"> Risks to community health and safety caused by management and disposal of waste? 		√	No such risk will occur.
<ul style="list-style-type: none"> Community safety risks due to both accidental and natural hazards, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning? 		√	Project area is located away from the locality thus no such risk will result.
Climate Change and Disaster Risk Questions The following questions are not for environmental categorization. They are included in this checklist to help identify potential climate and disaster risks.	Yes	No	Remarks
<ul style="list-style-type: none"> Is the Project area subject to hazards such as earthquakes, floods, landslides, tropical cyclone winds, storm surges, tsunami or volcanic eruptions and climate changes (see Appendix I)? 	√		Project area is present in seismic zone-5
<ul style="list-style-type: none"> Could changes in precipitation, temperature, salinity, or extreme events over the Project lifespan affect its sustainability or cost? 		√	
<ul style="list-style-type: none"> Are there any demographic or socio-economic aspects of the Project area that are already vulnerable (e.g. high incidence of marginalized populations, rural-urban migrants, illegal settlements, ethnic 		√	There are no demographic or socio-economic aspects of project area.
<ul style="list-style-type: none"> Could the Project potentially increase the climate or disaster vulnerability of the surrounding area (e.g., increasing traffic or housing in areas that will be more prone to flooding, by encouraging settlement in 		√	Project area is away from settlement (tea estate).

Consultation

Public Consultation

Name of the Sub-project	33/11KV Chabua (Mahakali) S/S
Name of the Village/s	Chabua Tea Estate
Venue	At Deputy Managers Chamber
Date	05/05/2017
No. of Participants attended	11
Consultations conducted by	SMEC Team

Objectives:

- To inform the community about the sub-project
- To understand their overall socio-economic condition
- To understand their views and perceptions on project

Issues Discussed & Observation made:

- [illegible]

Attendance Sheet








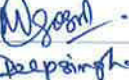
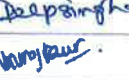


Date 05/05/2017

Sub-Project Name

Village/s

33/11KV Chabua (Mahakali) S/S

At Deputy Managers chamber, Chabua T.E.

Sl. No.	Name	Address	Occupation	Signature
1	Ganesh Sharma	Chabua T.E.	Deputy Manager	
2	Santanu Gogoi	Chabua T.E.	Asstt Manager	
3	A.K. Bordoloi	Chabua Sub division	S.D.R.	
4	Gauranga Mondal	NEECON	Site Supervisor	
5	Bablu Phukan	NEECON	Engg.	
6	Sachin Talukdar	PMU, APDCL	Asstt. Manager	
7	Diby Jyoti Baruah	ESMU, SMRC, Ghy	Social/Env. Support Prog.	
8	Kharin Barishya	do -	do -	
9	Mamzil Gogoi	do -	do -	
10	Deepjyoti Singha	do -	do -	
11	Manoj Kumar	do -	Environmental Investigator	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				