8th Semi Annual (July-December, 2019) Report

Social Safeguard and Monitoring Report

Ashuganj 400 MW (East) Combined Cycle Power Plant Project (CCPP)
Ashuganj Power Station Company Ltd.
Ashuganj, Brahmanbaria.

Social Safeguard and Monitoring Report

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ASHUGANJ 400 MW (EAST) COMBINED CYCLE POWER PLANT PROJECT (CCPP)

Ashuganj, Brahmanbaria.

Ashuganj Power Station Company Limited (APSCL)

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For

Ashuganj 400 MW (East) Combined Cycle Power Plant Project (CCPP)

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Period: 8th Semi-Annual (July –December, 2019)

EXECUTIVE SUMMARY

During the period from July to December 2019, the EPC Contractor has carried out mainly the Foundation work, Site Processing work including construction of Main Building, Bypass Stack, HRSG, RMS, CW pump house, Gas booster, Turbine Generator, Condenser Pit, Transformer and Turbine Base. In order to complete those works, they mobilize the equipment's, workers and materials. In this period there is no discharge and for this, there is no impact on the living things in the water body. Air Pollution caused by dust emission during construction traffic activities is controlled by good management practices like continuous water spray over the unpaved or bare surfaces, covering soil materials pile. Soil and water pollutions are also prevented by proper management like spill prevention and well drainage system. Solid waste is managed by the waste management plan. Noise pollution is also a regarding issue during Steel Structure Erection activities for using of demolition equipment's and also for traffic and transport. Noise level is reduced by using of fine-tuned low noise level construction equipment's and by the proper traffic management system. So, there is no impacts on local people livelihood, land use pattern or land ownership. Even there is no need to resettle any people because of APSCL own existing plant land. Besides this, Environmental components like air, water and soil will not be hampered remarkably. The minimal disturbance to the social and environment during construction phase identified in EIA and other reports will be managed by proper environmental management system following suggestive and recommended measures in the EIA, ADB Environmental Safeguard Policy 2009, IFC/World Bank Thermal Power Plant Guideline 2008 & 2017 and Department of Environment, Bangladesh guideline.

1.0 INTRODUCTION

The objective of the social safeguard management and monitoring is to record social impacts resulting from the project activities and to ensure implementation of the "mitigation measures" identified earlier in order to reduce adverse impacts and enhance positive impacts from specific project activities. Besides, it would also address any unexpected or unforeseen social impacts that may arise during construction and operation phases of the project.

The EMP (in the EIA) clearly lay out: (a) the measures to be taken during both construction and operation phases of the project to eliminate or offset adverse social impacts, or reduce them to acceptable levels; (b) the actions needed to implement these measures; and (c) a monitoring plan to assess the effectiveness of the mitigation measures employed. Social management and monitoring activities for the under-construction power plant project could be divided into management and monitoring: (a) during the construction phase, and (b) during the operation phase.

The application of this plan involved a social control and monitoring of the work by a technical team to verify compliance with all the indications, limitations or socio-environmental restrictions set forth in the Environmental Management Plan (EMP), EIA and the Project, with the minimise damage caused by work on the environment and society.

The information obtained by the implementation of the Socio-environmental Action Plan is required to define preventive measures or define corrective actions.
The information generated as a result of implementing the Socio-environmental Action Plan must be duly forwarded to the Department of Environment (DoE).

1.1 Brief Project Description

A Combined Cycle Power Plant of Total net 400±5% MW capacity at site condition (35 ºC, 1.013 bars, 98% R.H.) is intended to be set by Ashuganj Power Station Company Limited inside the existing premises. The Power Station will be connected with the Ashuganj 400 KV Gas Insulated Switchgear (GIS) Grid Sub-Station with necessary electrical equipment. The basic concept for the Ashuganj 400 MW CCPP (East) project shall be a CCGT Plant based on one Gas Turbine Generator unit (GTG), one Unfired Heat Recovery Steam Generator and one Steam Turbine Generator unit (STG). Water-steam cycle will be a three pressure levels (HP, IP and LP) with reheat. The Ashuganj 400 MW (East) Combined Cycle Power Plant Project complex is located on the Southern bank of Meghna river, just outside and to the East of Bhairab Bridge The power plant is located in Ashuganj Upazilla. The entire power plant is completely enclosed, covers an area of about 4.50 acres and is owned by the Ashuganj Power Station Company Limited (APSCL).

1.2 Project Progress Status and Implementation Schedule

The basic concept for the Ashuganj East project shall be a CCGT Plant based on one Gas Turbine Generator unit (GTG), one Unfired Heat Recovery Steam Generator and one Steam Turbine Generator unit (STG). Water-steam cycle will be three pressure levels (HP, IP and LP) with reheat.

General components of the proposed CCGT project include the following: (i) 400±5% MW CCGT unit complete with necessary auxiliaries including air intake filtration

facilities, inlet and exhaust silencers, control systems, main stack with delivery damper, gas fuel treatment system, (ii) Power generator for the gas turbine unit with all auxiliaries including cooling system, control system, excitation system; (iii) one Steam turbine unit complete with necessary auxiliaries including heater, pumps, steam turbine bypass, control systems; (iv) Power generator for the steam turbine unit with all auxiliaries including cooling system, control system; (v) Heat Recovery Steam Generating system with auxiliaries including deaerators, pumps, exhaust stack, control system; (vi) Gas booster compressor system with all auxiliaries and control system; (vii) Di-mineralized water system complete with pumps, tanks, control system (viii) Effluent treatment system with all auxiliaries including, chemical dosing systems, settling units, control system, pumps; (ix) Other essential plant equipment including air compressor, natural gas supply system with 2200 m gas pipeline, circulating water system, cooling water pond, raw water intake structure, condensate system; (x) Construction of internal roads. (xi) Switch room (xii) Emergency generator and transformer.

A. Project Progress Status

The updated status of Ashuganj 400 Mw (East) Combined Cycle Power Plant Project (CCPP) from July 2019 to December 2019 is given below in Table:

Sl. No.	Work Description	Status
1.	**Demolition Schedule** Demolition Schedule for old power plant	Completed 100%
2.	**Demolition of Existing Power Plant** The old power plant will be demolished	Completed 100%
3.	**Civil Works:** Main Building Bypass Stack HRSG RMS CW pump house Gas booster Turbine Generator Condenser Pit Transformer	 Foundation work finished Foundation work finished Foundation work finished Site Processing work Started Site Processing work Started Site Processing work Started Foundation work finished Foundation work finished Site Processing work Started
4.	**Mechanical and Electrical Facilities** Consist of -Erection of HRSG, Steam Turbine, Generator, Cooling Tower, CW Pump House and all other BOP Equipment/Components of Power Plant. -Electrical and I&C works with commissioning	Not yet started

Figure-1: Project Details Engineering Chart

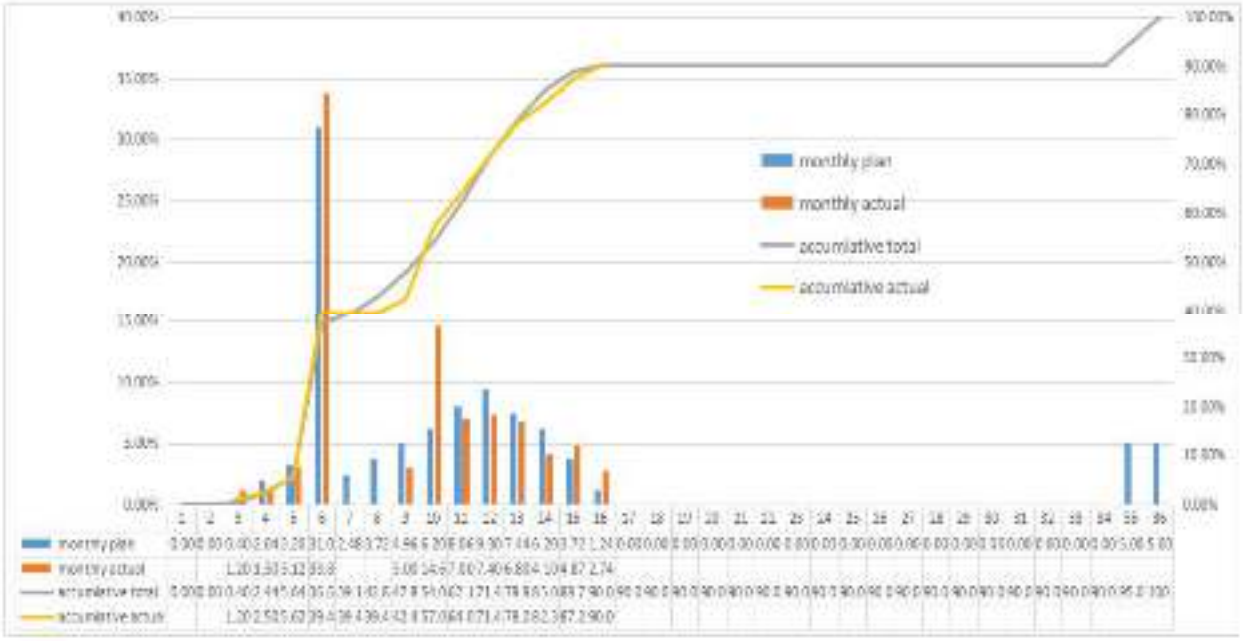


Figure-2: Project Progress Chart (Civil)

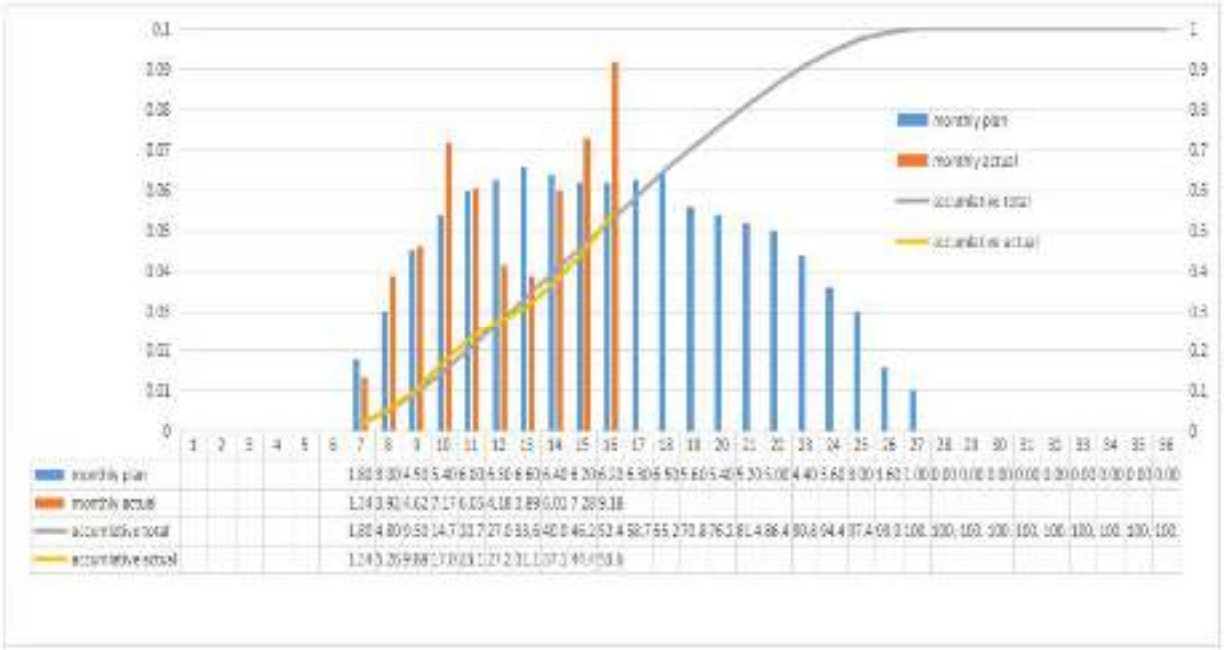


Figure-3: Project Progress Chart (Procurement)

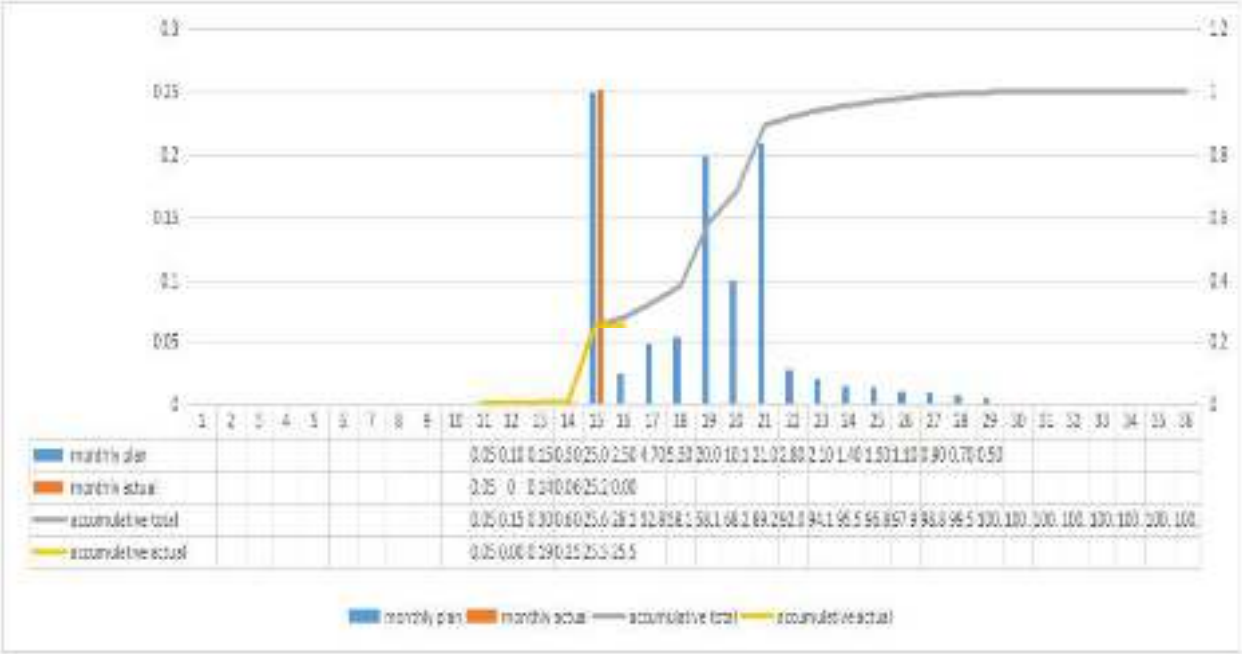
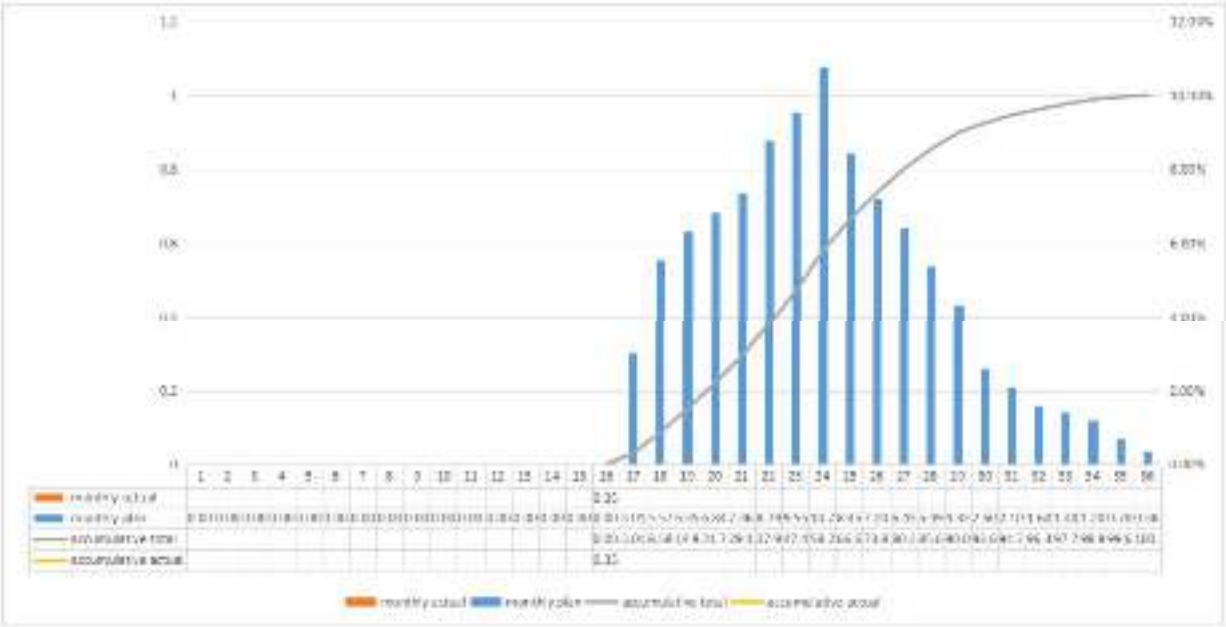


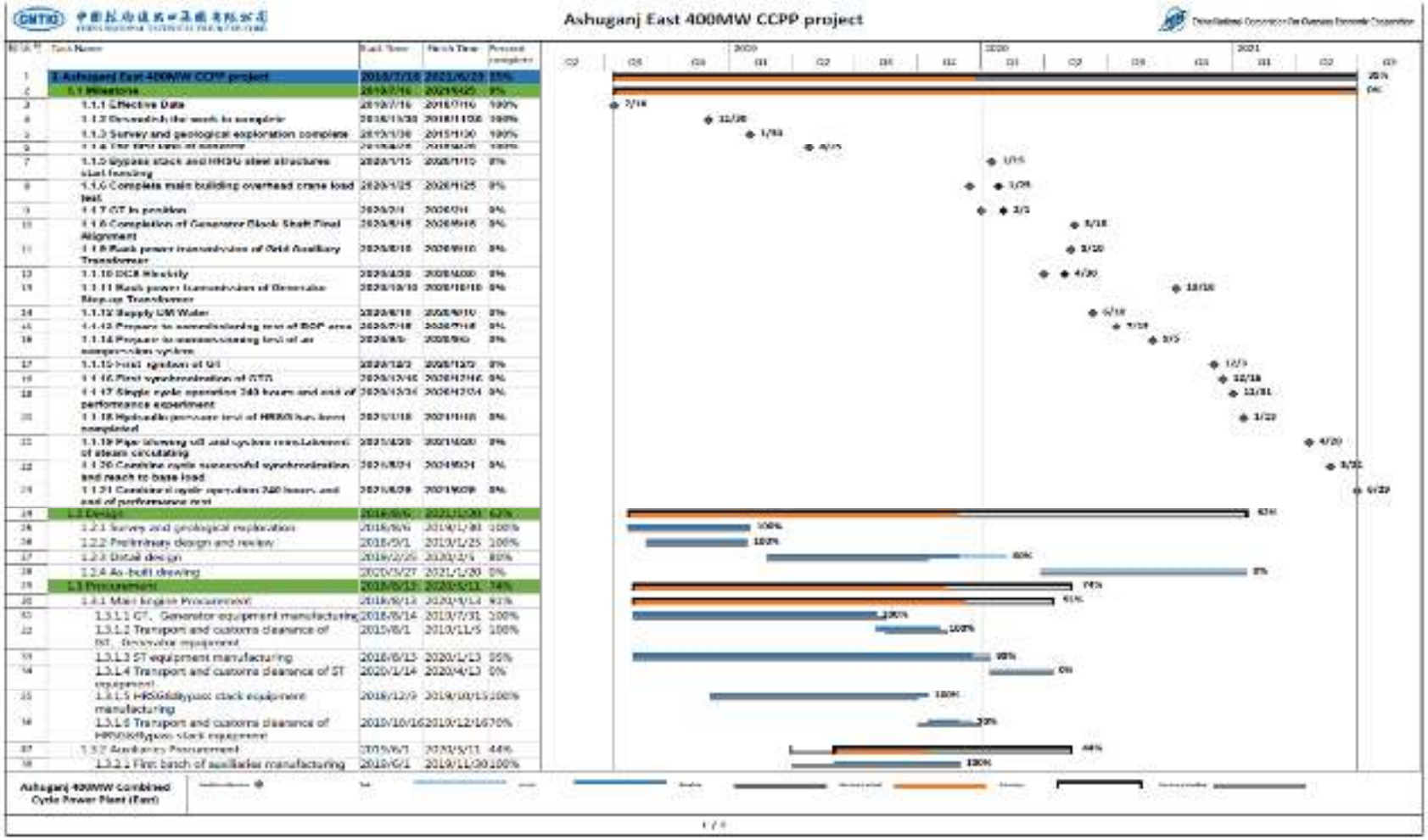
Figure-4: Project Progress Chart (Installations)

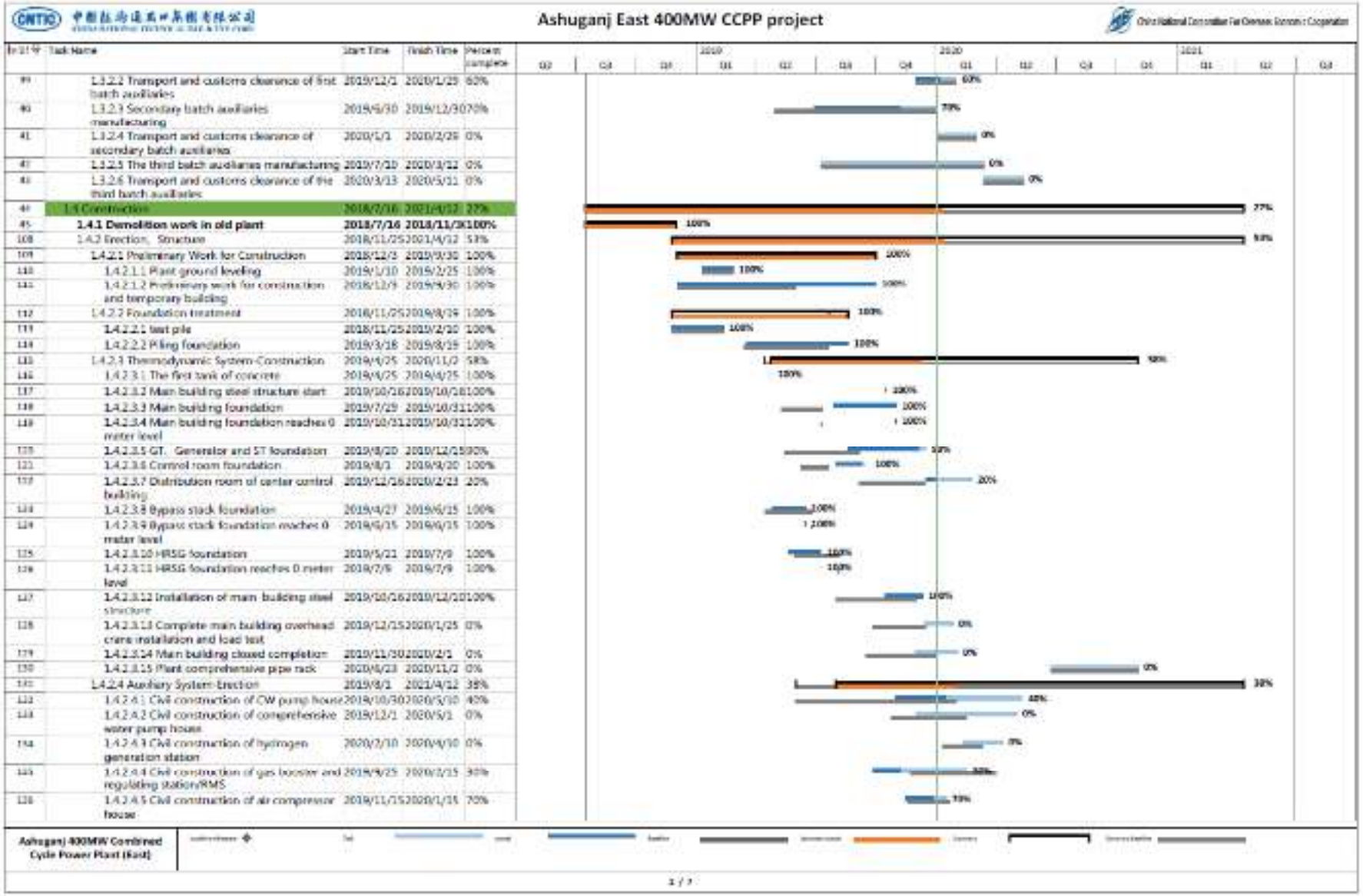


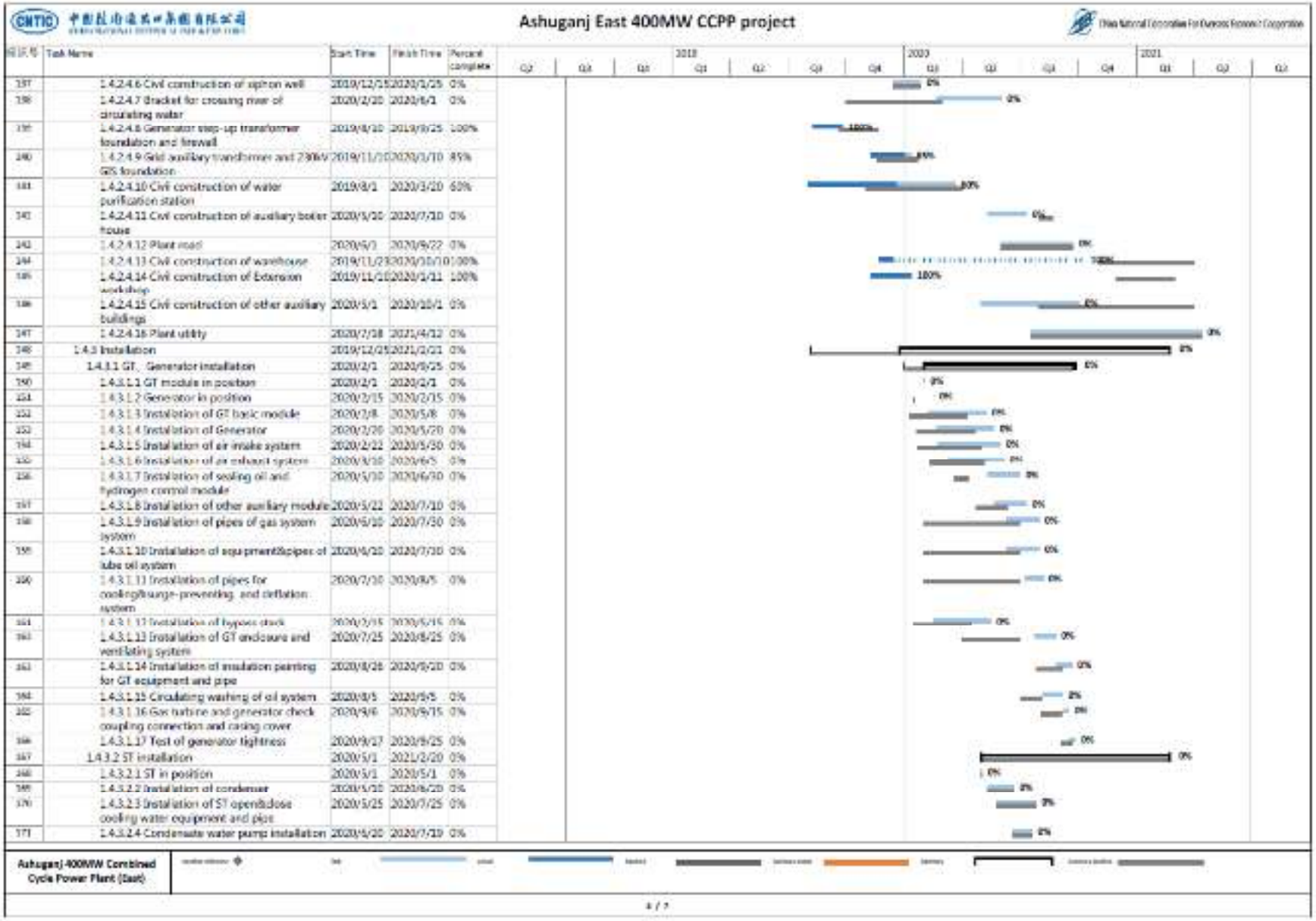
B. Implementation Schedule for the project:

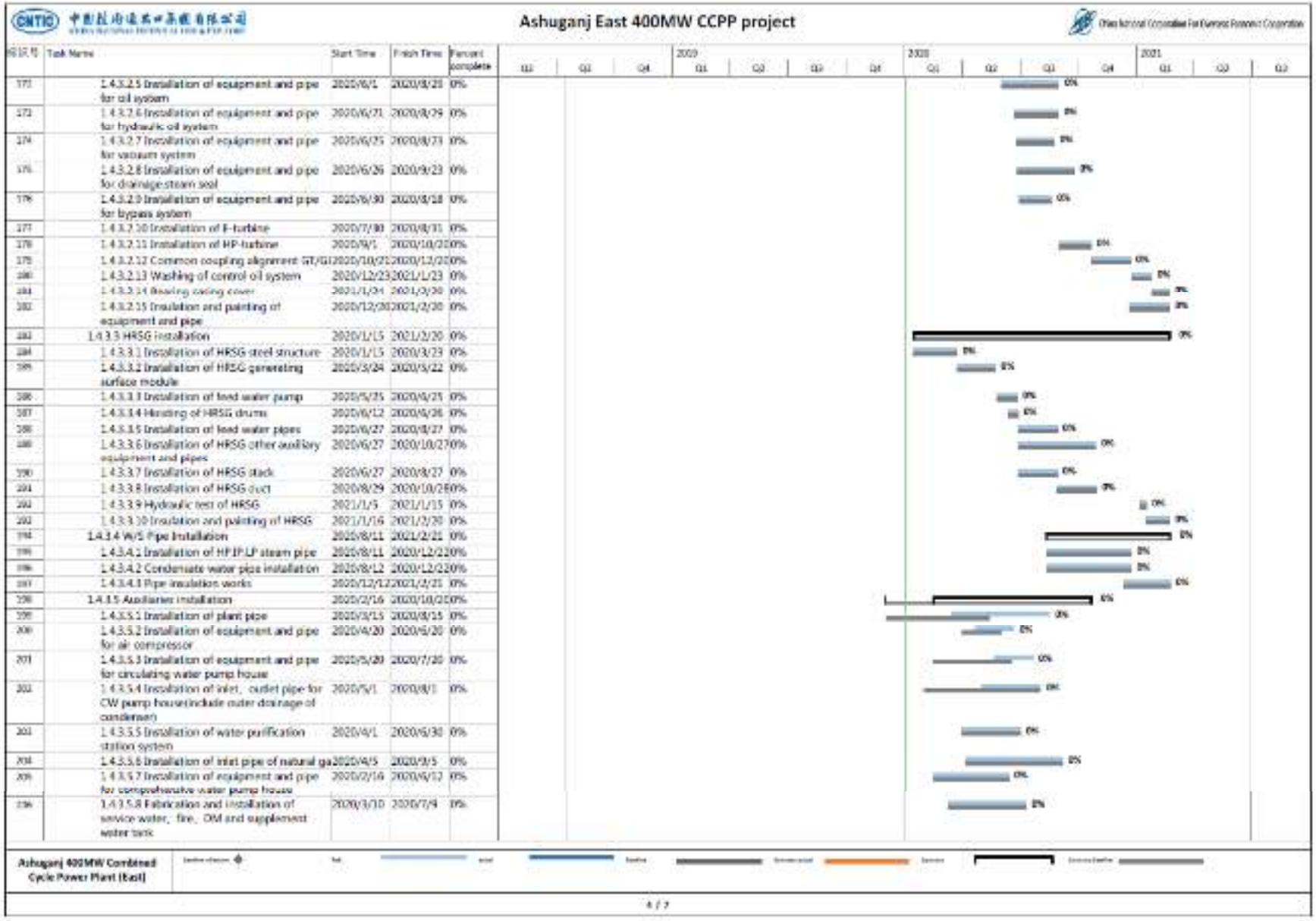
The tentative implementation schedule of Ashuganj 400 Mw (East) Combined Cycle Power Plant Project (CCPP) is given below:

Implementation Schedule (Tentative):




Ashuganj East 400MW CCPP project
Ashuganj 400MW Combined Cycle Power Plant (East)


Ashuganj East 400MW CCPP project
Task Name
Start Time
Finish Time
Percent complete
2019/12/15 2020/1/25 0%
2020/2/20 2020/6/1 0%
2019/8/10 2019/9/25 100%
2019/11/10 2020/1/10 85%
2019/8/1 2020/3/20 60%
2020/5/10 2020/7/10 0%
2020/5/1 2020/9/22 0%
2019/11/23 2020/10/10 100%
2019/11/10 2020/1/11 100%
2020/5/1 2020/10/1 0%
2020/2/18 2021/4/12 0%
2019/12/25 2021/2/21 0%
2020/2/1 2020/8/25 0%
2020/2/1 2020/2/1 0%
2020/2/15 2020/2/15 0%
2020/2/8 2020/5/8 0%
2020/2/20 2020/5/20 0%
2020/2/22 2020/5/30 0%
2020/5/10 2020/6/5 0%
2020/5/10 2020/6/30 0%
2020/5/22 2020/7/10 0%
2020/5/10 2020/7/30 0%
2020/5/10 2020/7/30 0%
2020/7/10 2020/8/5 0%
2020/7/25 2020/8/25 0%
2020/8/20 2020/9/20 0%
2020/8/5 2020/9/5 0%
2020/8/6 2020/9/15 0%
2020/9/17 2020/9/25 0%
2020/5/1 2021/2/20 0%
2020/5/1 2020/5/1 0%
2020/5/10 2020/8/20 0%
2020/5/25 2020/7/25 0%
2020/5/20 2020/7/19 0%
2018
2019
2020
2021
Ashuganj-400MW Combined Cycle Power Plant (East)


Ashuganj East 400MW CCPP project
Task Name
Start Time
Finish Time
Percent complete
2020
2021
1.4.3.2.5 Installation of equipment and pipe for oil system 2020/6/1 2020/8/20 0%
1.4.3.2.6 Installation of equipment and pipe for hydraulic oil system 2020/6/21 2020/8/29 0%
1.4.3.2.7 Installation of equipment and pipe for vacuum system 2020/6/25 2020/8/21 0%
1.4.3.2.8 Installation of equipment and pipe for drainage steam seal 2020/6/26 2020/9/23 0%
1.4.3.2.9 Installation of equipment and pipe for bypass system 2020/6/30 2020/8/18 0%
1.4.3.2.10 Installation of E-turbine 2020/7/30 2020/8/31 0%
1.4.3.2.11 Installation of HP-turbine 2020/9/1 2020/10/20 0%
1.4.3.2.12 Common coupling alignment GT/G1 2020/10/21 2020/12/20 0%
1.4.3.2.13 Washing of control oil system 2020/12/23 2021/1/23 0%
1.4.3.2.14 Bearing casing cover 2021/1/24 2021/2/20 0%
1.4.3.2.15 Insulation and painting of equipment and pipe 2020/12/30 2021/2/20 0%
1.4.3.3 HRSG installation 2020/1/15 2021/2/20 0%
1.4.3.3.1 Installation of HRSG steel structure 2020/1/15 2020/3/23 0%
1.4.3.3.2 Installation of HRSG generating surface module 2020/3/24 2020/5/22 0%
1.4.3.3.3 Installation of feed water pump 2020/5/25 2020/6/25 0%
1.4.3.3.4 Hoisting of HRSG drums 2020/6/12 2020/6/26 0%
1.4.3.3.5 Installation of feed water pipes 2020/6/27 2020/8/27 0%
1.4.3.3.6 Installation of HRSG other auxiliary equipment and pipes 2020/6/27 2020/10/27 0%
1.4.3.3.7 Installation of HRSG stack 2020/6/27 2020/8/27 0%
1.4.3.3.8 Installation of HRSG duct 2020/8/29 2020/10/28 0%
1.4.3.3.9 Hydraulic test of HRSG 2021/1/5 2021/1/15 0%
1.4.3.3.10 Insulation and painting of HRSG 2021/1/16 2021/2/20 0%
1.4.3.4 W/S Pipe Installation 2020/8/11 2021/2/21 0%
1.4.3.4.1 Installation of HP IP LP steam pipe 2020/8/11 2020/12/23 0%
1.4.3.4.2 Condensate water pipe installation 2020/8/12 2020/12/23 0%
1.4.3.4.3 Pipe insulation works 2020/12/12 2021/2/21 0%
1.4.3.5 Auxiliaries installation 2020/2/16 2020/10/20 0%
1.4.3.5.1 Installation of plant pipe 2020/3/15 2020/8/15 0%
1.4.3.5.2 Installation of equipment and pipe for air compressor 2020/4/20 2020/6/20 0%
1.4.3.5.3 Installation of equipment and pipe for circulating water pump house 2020/5/20 2020/7/20 0%
1.4.3.5.4 Installation of inlet, outlet pipe for CW pump house(include outer drainage of condenser) 2020/5/1 2020/8/1 0%
1.4.3.5.5 Installation of water purification station system 2020/4/1 2020/6/30 0%
1.4.3.5.6 Installation of inlet pipe of natural ga 2020/4/5 2020/9/5 0%
1.4.3.5.7 Installation of equipment and pipe for comprehensive water pump house 2020/2/16 2020/6/12 0%
1.4.3.5.8 Fabrication and installation of service water, fire, DM and supplement water tank 2020/3/10 2020/7/9 0%
Ashuganj 400MW Combined Cycle Power Plant (East)
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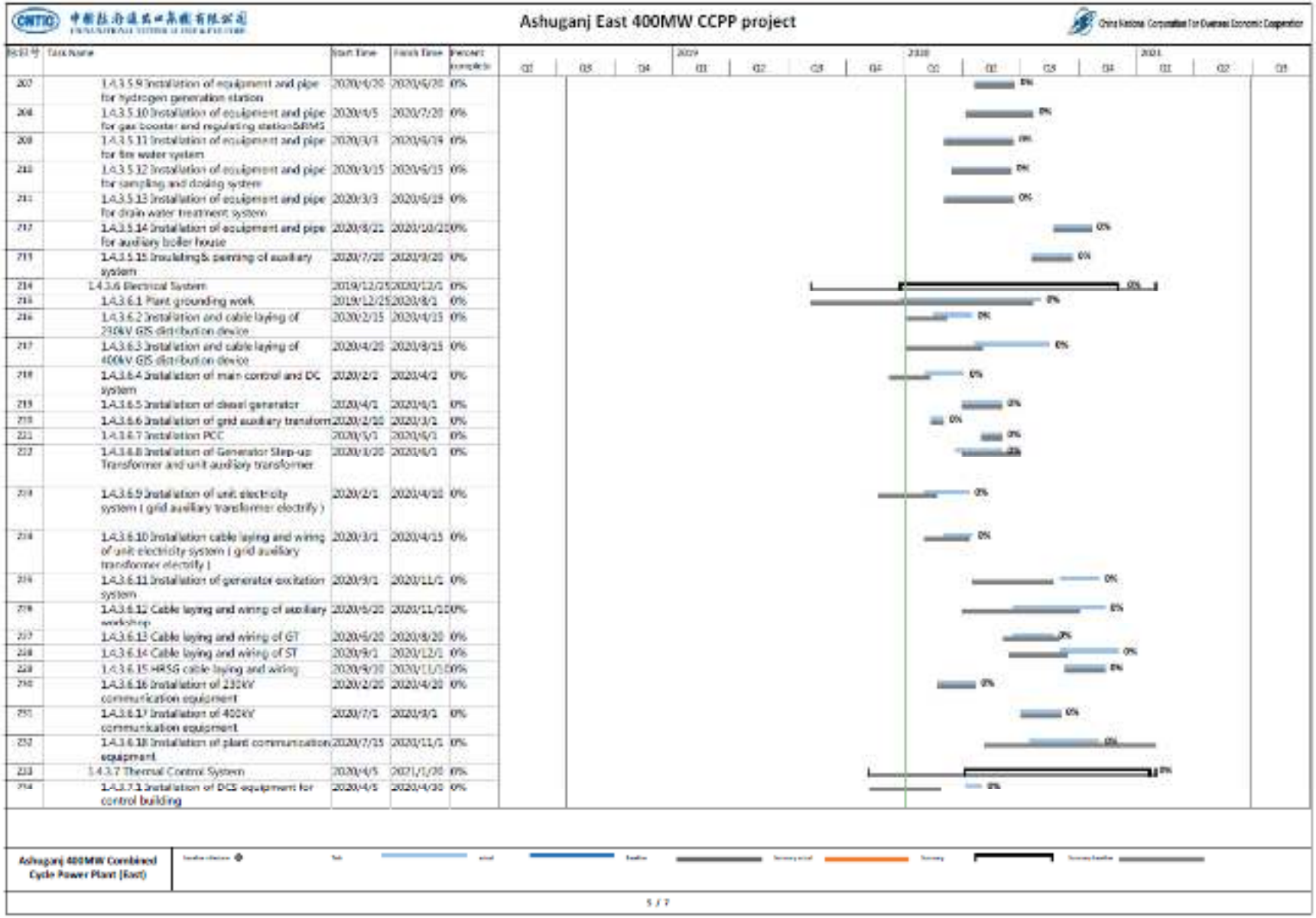
Ashuganj East 400MW CCPP project
China National Corporation for Overseas Economic Cooperation
Task Name
Start Time
Finish Time
Percent Complete
2019
2020
2021
Ashuganj 400MW Combined Cycle Power Plant (East)
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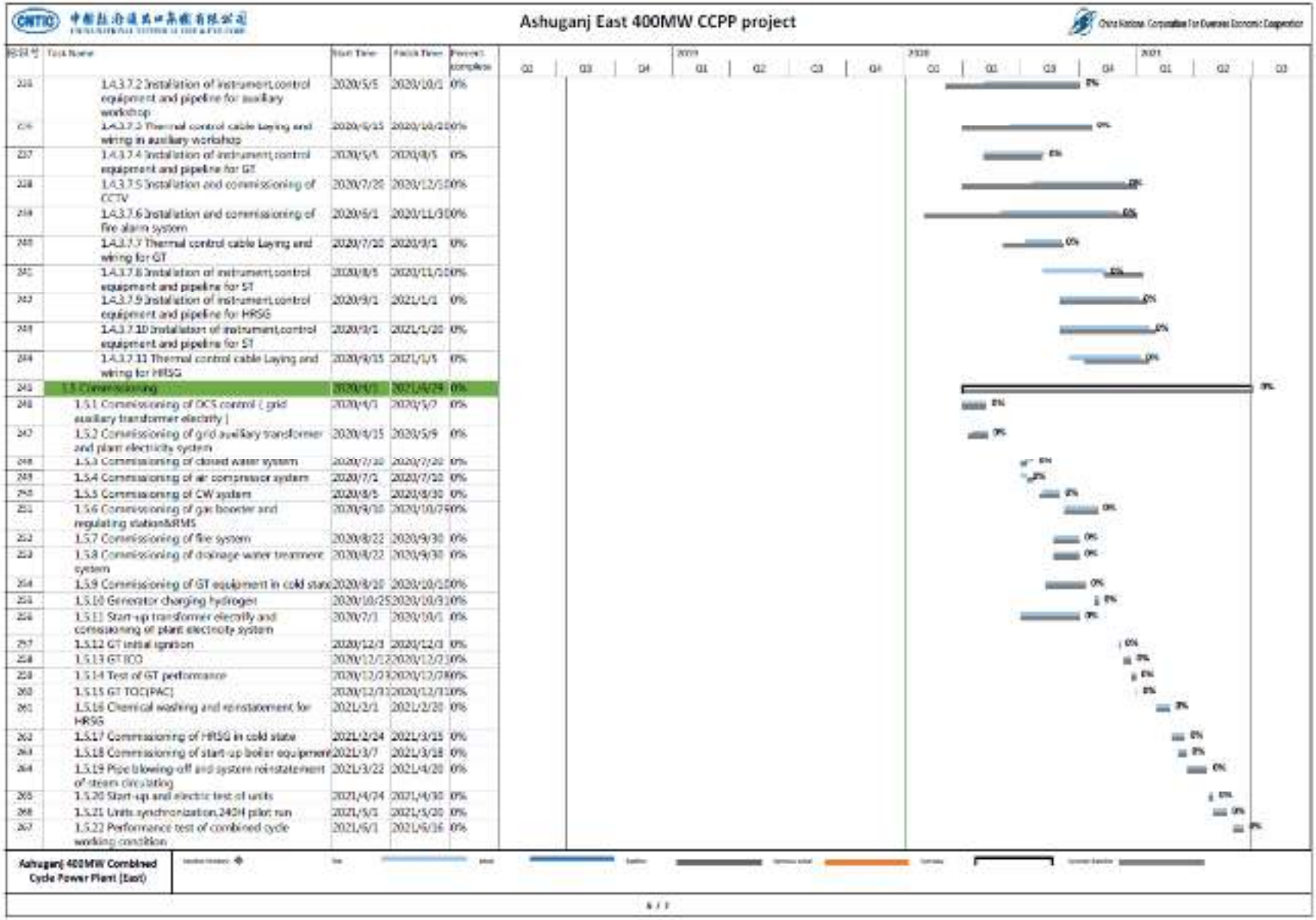

Ashuganj East 400MW CCPP project
China National Corporation for Overseas Economic Cooperation
Task Name
Start Time
Finish Time
Percent complete
2019
2020
2021
Q1
Q2
Q3
Q4
1.4.3.7.2 Installation of instrument,control equipment and pipeline for auxiliary workshop 2020/5/5 2020/10/1 0%
1.4.3.7.3 Thermal control cable Laying and wiring in auxiliary workshop 2020/6/15 2020/10/20 0%
1.4.3.7.4 Installation of instrument,control equipment and pipeline for GT 2020/5/5 2020/8/5 0%
1.4.3.7.5 Installation and commissioning of CCTV 2020/7/20 2020/12/1 0%
1.4.3.7.6 Installation and commissioning of fire alarm system 2020/6/1 2020/11/3 0%
1.4.3.7.7 Thermal control cable Laying and wiring for GT 2020/7/20 2020/9/1 0%
1.4.3.7.8 Installation of instrument,control equipment and pipeline for ST 2020/8/5 2020/11/1 0%
1.4.3.7.9 Installation of instrument,control equipment and pipeline for HRSG 2020/9/1 2021/1/1 0%
1.4.3.7.10 Installation of instrument,control equipment and pipeline for ST 2020/9/1 2021/1/20 0%
1.4.3.7.11 Thermal control cable Laying and wiring for HRSG 2020/9/15 2021/1/1 0%
1.5 Commissioning 2020/4/1 2021/4/29 0%
1.5.1 Commissioning of DCS control (grid auxiliary transformer electrify) 2020/4/1 2020/5/7 0%
1.5.2 Commissioning of grid auxiliary transformer and plant electricity system 2020/4/15 2020/5/9 0%
1.5.3 Commissioning of closed water system 2020/7/10 2020/7/20 0%
1.5.4 Commissioning of air compressor system 2020/7/1 2020/7/10 0%
1.5.5 Commissioning of CW system 2020/8/5 2020/8/30 0%
1.5.6 Commissioning of gas booster and regulating station&RMS 2020/9/10 2020/10/7 0%
1.5.7 Commissioning of fire system 2020/8/22 2020/9/30 0%
1.5.8 Commissioning of drainage water treatment system 2020/8/22 2020/9/30 0%
1.5.9 Commissioning of GT equipment in cold state 2020/8/10 2020/10/1 0%
1.5.10 Generator charging hydrogen 2020/10/25 2020/10/31 0%
1.5.11 Start-up transformer electrify and commissioning of plant electricity system 2020/7/1 2020/10/1 0%
1.5.12 GT initial ignition 2020/12/3 2020/12/3 0%
1.5.13 GT ICO 2020/12/12 2020/12/21 0%
1.5.14 Test of GT performance 2020/12/31 2020/12/31 0%
1.5.15 GT TOC(PAC) 2020/12/31 2020/12/31 0%
1.5.16 Chemical washing and reinstatement for HRSG 2021/2/1 2021/2/20 0%
1.5.17 Commissioning of HRSG in cold state 2021/2/24 2021/3/15 0%
1.5.18 Commissioning of start-up boiler equipment 2021/3/7 2021/3/18 0%
1.5.19 Pipe blowing-off and system reinstatement of steam circulating 2021/3/22 2021/4/20 0%
1.5.20 Start-up and electric test of units 2021/4/24 2021/4/30 0%
1.5.21 Units synchronization,240H pilot run 2021/5/1 2021/5/20 0%
1.5.22 Performance test of combined cycle working condition 2021/6/1 2021/6/16 0%
Ashuganj 400MW Combined Cycle Power Plant (East)

ID	Task Name	Start Time	Finish Time	Percent complete	2019 Q2	2019 Q3	2019 Q4	2020 Q1	2020 Q2	2020 Q3	2020 Q4	2021 Q1	2021 Q2	2021 Q3
268	1.5.23 Combined cycle working condition TOC	PAC	2021/6/29	2021/6/29	0%									0%

Ashuganj 400MW Combined Cycle Power Plant (East)

2.0 COMPLIANCE OF SOCIAL SAFEGUARD COVENANTS FROM THE ADB LOAN AGREEMENT

2.1 Covenants from the ADB Loan Agreement

Covenants	Reference	Compliance status
Land Acquisition and Involuntary Resettlement		
The borrower shall ensure , or cause APSCL to ensure, that all land and all rights-of-way required for the project, and all project facilities are made available to the works contractor in accordance with the schedule agrees under the related works contract and all land acquisition and resettlement activities are implemented in compliance with (a)all applicable laws and regulations of the borrower relating to land acquisition and involuntary resettlement; (b)the involuntary resettlement safeguards; (c)the RF; and (d) All measures and requirement set forth in the respective RP, and any corrective or preventive actions set forth in a safeguard monitoring report.	LA, Schedule 5, Para 3	In case of APSCL these types of issues do not arise due to the project location. The project location is inside the premises of APSCL own land. So, There is no requirements of Land Acquisition and Involuntary Resettlement.
Safeguards – Related provisions in bidding documents and works contracts		
The borrower shall ensure, or cause each project executing agency to ensure, that all bidding documents and contracts for works contain provisions that require contractor to: (a) Comply with the measures and requirements relevant to the contractor set forth in the EIA, IEE, the EMP, the RP and any small ethnic community peoples plan (to the extent they concern impacts on affected people during construction), and any corrective or preventive actions set out in a safeguard monitoring report; (b) Make available a budget for all such environmental and social measures; (c) Provide the borrower with a written notice of any unanticipated environmental, resettlement or small	LA, Schedule 5, Para 7	The safeguards- related provisions in bidding documents and work contracts has been followed strictly and update time to time for further requirements.

ethnic community people risks or impacts that arise during construction, implementation or operation of the project that were not considered in the EIA, the IEE, the EMP, the RP or any small ethnic community peoples plan; (d) Adequately record the condition of roads, agricultural and other infrastructure prior to starting to transport materials and construction; (e) Fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.		
Safeguards- Monitoring and Reporting		
The borrower shall do the following or shall cause APSCL to do the following: (a) Submit semiannual safeguards monitoring reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (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 EIA, 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; (c) No later than the mobilization of the turnkey contractor for APSCL,s power plant, engage qualified and experienced external experts or qualified no-governmental organizations under a selection process and terms of reference acceptable to ADB, to verify information produced through the project monitoring process, and facilitated the carrying out of any verification by such external experts; and (d) 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.	LA, Schedule 5, Para 7	The Safeguards monitoring will have been carried out in all three phase i,e. pre-construction, during construction and post construction phase or operational phase.

Labor standards		
The borrower shall ensure that all works contract documents to be prepared under the project incorporate provisions and budget to the effect that contractors (a) Comply with all applicable labor laws and related international treaty obligations of the borrower and do not employ child labor as defined under Bangladesh law; (b) Provide safe working conditions for male and female workers; (c) Carry out HIV/ AIDS and human trafficking prevention and awareness campaigns in the campsites and corridors of influence; (d) Engage women worker as wage laborers depending on their skill; and (e) Provide equal wages for equal work between men and women	LA, Schedule 5, Para 10	All the applicable labor standards will be followed strictly.

3.0 SAFEGUARD MONITORING RESULTS AND UNANTICIPATED IMPACTS

3.1 Personal Protective Equipment

The working personnel involved in the construction activities has to put on PPE properly.

Figure:05 shows that, the workers were involved in construction works, Welding, Scaffolding works inside the project. The workers were found with proper PPE, such as Safety Jacket, Safety Shoes, Helmet and Hand Gloves, Eye face protection etc.

Table-1: List of Personal Protective Equipment Used in Project Site

SI No.	Type of Work	Personal Protective Equipment Used in Site
1	Excavation	Safety Jacket, Safety Shoes, Safety Helmet, Respiratory Protection and Hand Gloves.
2	Construction	Safety Jacket, Safety Shoes, Safety Goggle, Full Body Safety Harness with Shock Absorber, Safety Belt, Helmet, Respiratory protection and Hand Gloves.
3	Welding	Safety Helmet, Safety shoes, Welding Full Face Shield, Welding Hand Shield, Welding Google, Protective Clothing, Welding Leather Apron with Leg Guard, Hand Gloves, Ear Plug, Ear Muff, Respiratory Protection etc.
4	Scaffolding	Safety Jacket, Safety Helmet, Safety Shoes, Slush Boots, Safety Belt, Rain Coat, Hand Gloves, Safety Goggle, Full Body Safety Harness with Shock Absorber, Respiratory Protection.

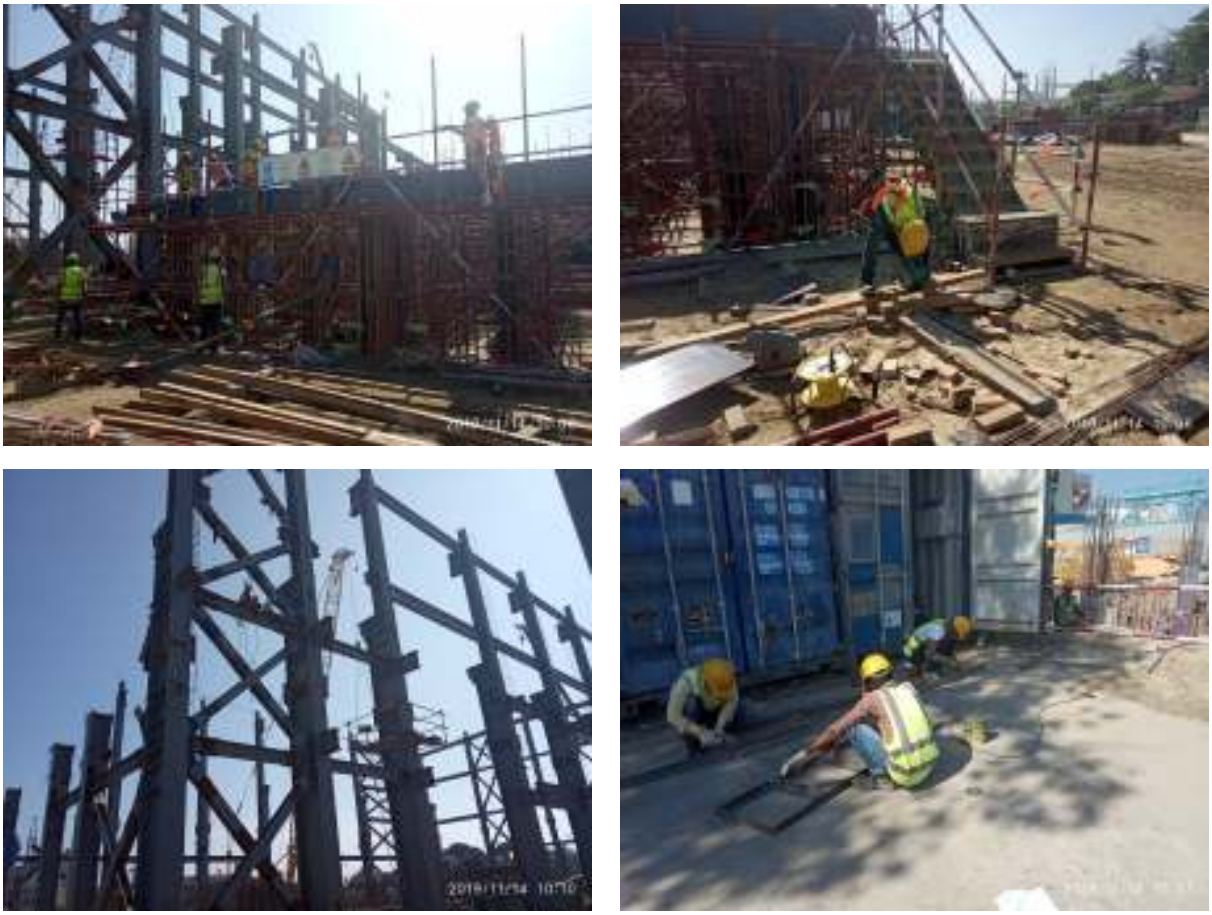


Figure 05: At the Site, Construction Workers are Working with Proper Personal Protective Equipment.

3.2 Worker's Health

The CNTIC-CCOEC consortium will provide all kinds of treatment facilities and pay compensation according to Bangladesh Labor Law 2006. It is suggested that worker's health have to be checked properly once in a year. Besides, an understanding has to be built with a local hospital for the emergency incident related to the worker's health of the plant. CNTIC-CCOEC Consortium has established health monitoring system by appointing a Doctor for the workers. In addition, necessary steps to be taken for arrangement of ambulance service in the plant area to support any emergency medical aid and shifting to the hospital/ medical centre. First aid, Doctor and Ambulance facilities are available at project site. First Aid Box found with medicine list are-

- adhesive tape
- adhesive bandages (Band-Aids) in several sizes
- elastic bandage
- Splint
- antiseptic wipes
- antibiotic ointment

- antiseptic solution (like hydrogen peroxide)
- hydrocortisone cream (1%)
- acetaminophen and ibuprofen
- tweezers
- sharp scissors
- safety pins
- calamine lotion
- alcohol wipes or ethyl alcohol
- thermometer
- Saline

Figure 06: Photograph of Furnished First Aid Box and Ambulance

3.3 Safety Orientation & Training of Workers

Training is essential to maintain the employee's health and safety. Both theoretical and practical training will be conducted for the employees on the hazards, precautions, and procedures for the safe storage, handling, and use of all potentially harmful materials. Safety orientation & training for the workers have to be provided to all working personnel during the fresh enrolment / employment. [References-07] Routine safety training on regular basis are maintained. It is suggested that CNTIC-CCOEC Consortium will arrange routine safety training at definite time interval for the workers throughout the construction phase of the project. In addition, Training procedure will incorporate information from the Material Safety Data Sheets (MSDS) for potentially harmful materials.

Figure 07: Photograph of Training for Fresh Enrolment Employee

Figure 08: Daily Toolbox Meeting for Workers

3.4 Sanitation & Drinking Water Facility to Workers

Health, Safety & Environment Division of APSCL has provided Sufficient number of Water Purifier & Dispenser having Alkaline RO with six stages water purification system at different locations of Plant and Beside 400 MW CCPP (East) Project site to supply pure mineral drinking water for this project workers and all others employees and visitors of APSCL. Beside this ground water is being supplied through the arrangement of piping network in the construction site and this water is available for the workers for the washing and toilet facilities. Besides, CNTIC-CCOEC Consortium Management supply potable water Jar for drinking purpose of the workers. At present five potable water Jar is available in project site for drinking purpose. Robust drinking water purification system with reverse osmosis and UV disinfection system, ambient and cold-water system will be installed at various locations in adequate number at the plant site during operational phase. Adequate toilets for male and female workers have already been constructed. Toilets are daily cleaned to keep these hygienic.

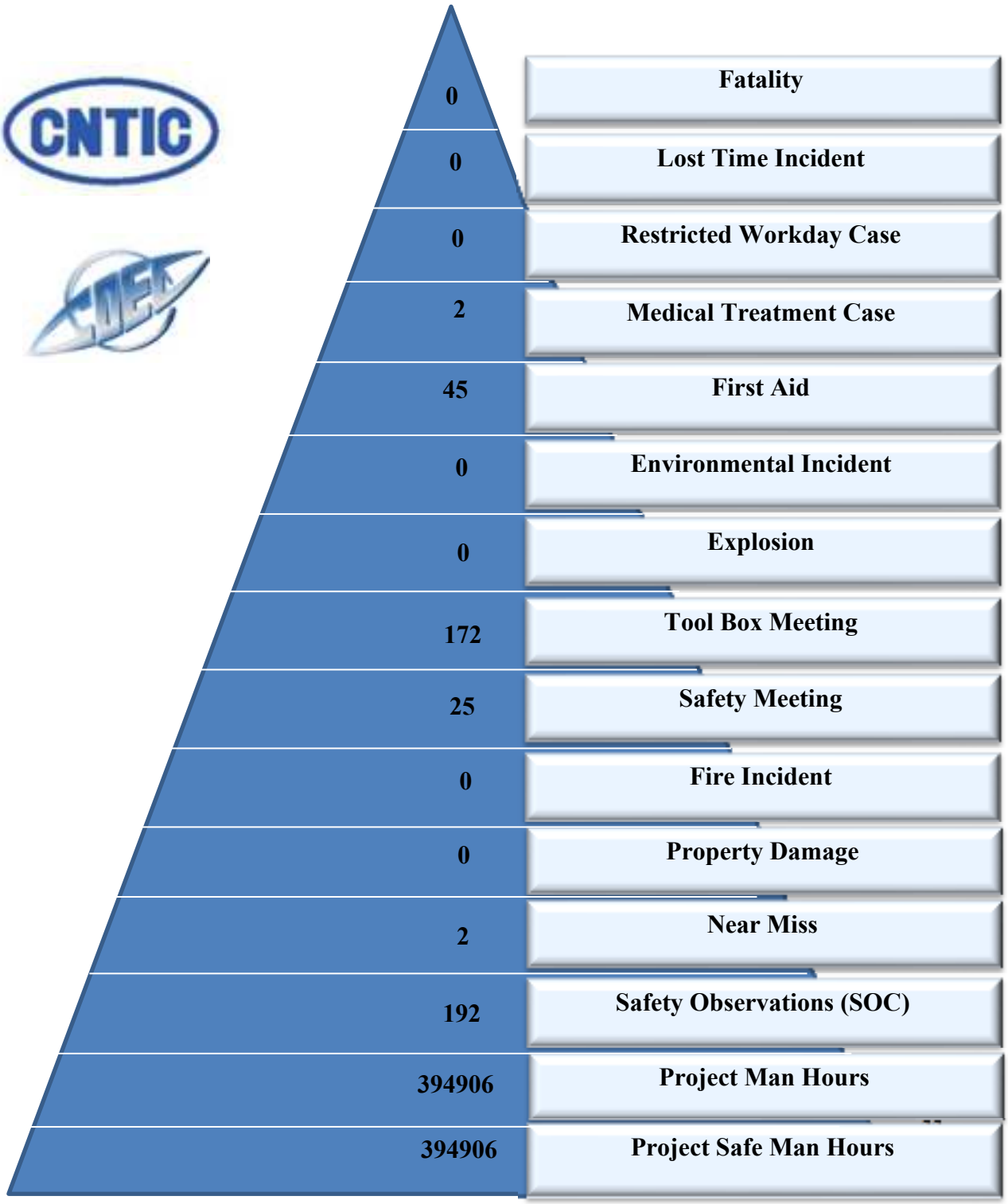
Figure 09: Sanitation & Drinking Water Facility to Workers

Figure 10: Water Jar Location at Project Site

3.5 Safety Assurance of the Project site

Personal Safety Equipment (PSE): Use of proper safety materials is mandatory for all at project site. Workers use all appropriate personal protective equipment (PPE), such as safety boots, helmet, safety jacket, safety belt, safety harness, gloves, protective clothing, goggles, grinding shield, welding shield, anti-dust mask, anti-gas mask and ear protection etc. Daily toolbox meeting before starting of work is a mandatory practice at the project site. There is two minor accident occur in the site on 22nd August and 29th August, 2019. The minor accident was properly investigated and documented for achieving the target with no fatality and other accident (Zero accident) and detail of safety issue is described in the HSE Statistics chart. HSE statistics from July to December 2019 is given following-

HSE STATISTICS



4.0 IMPLEMENTATION OF GRIEVANCE REDRESS MECHANISM AND COMPLAINTS RECEIVED FROM STAKEHOLDERS

4.1 Grievance Redress Mechanism and Disclosure

4.1.1 Grievance Redress Mechanism

Public participation, consultation and information disclosure undertaken as part of the local EIA process have discussed and addressed major community environmental concerns. Continued public participation and consultation has been emphasized as a key component of successful project implementation. As a result of this public participation during the initial stages of the project, major issues of grievance are not expected. During the operational phase of the project, the complaints that may be anticipated are mostly related to noise & vibration of the engines. However, unforeseen issues may occur. To settle such issues effectively, an effective and transparent channel for lodging complaints and grievances will be established. The grievance redress mechanism should be scaled to the risks and adverse impacts of the project. It should address affected people's concerns and complaints promptly, using an understandable and transparent process. It should also be readily accessible to all sections of the community at no cost and without retribution.

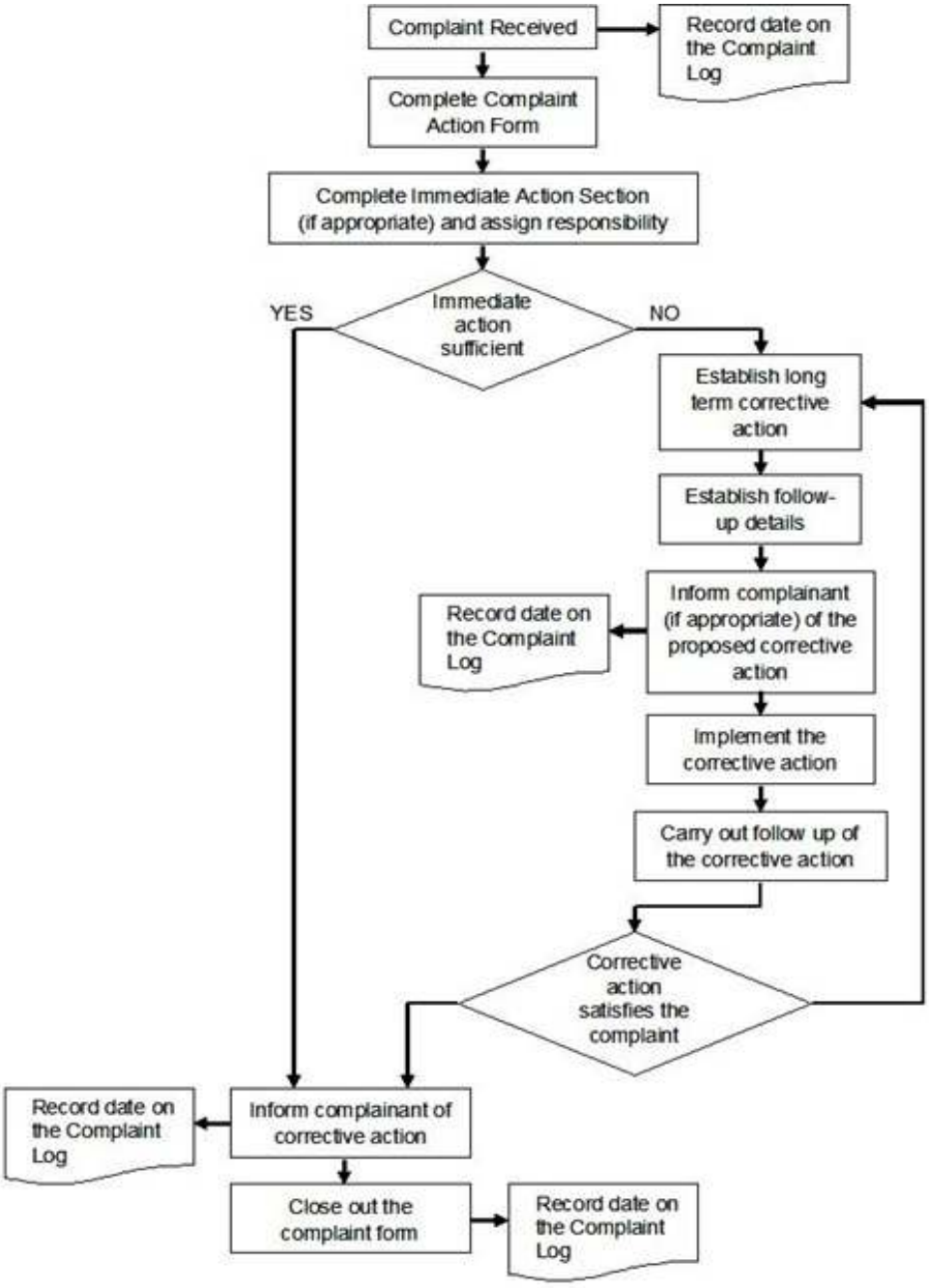
The Grievance Mechanism will be implemented during both the construction and operational period of the project to ensure that all complaints from local communities are dealt with appropriately, with corrective actions being implemented, and the complainant being informed of the outcome. It will be applied to all complaints from affected parties.

The mechanism will be accessible to diverse members of the community, including more vulnerable groups such as women and youth. Multiple means of using this mechanism, including face-to-face meetings, written complaints, telephone conversations should be available. Confidentiality and privacy for complainants should be honored where this is seen as necessary or important.

A grievance redress mechanism and procedures are setup to provide opportunity for project affected persons to settle their complaints and grievances amicably. The established grievances redress procedures and mechanism ensures that project affected persons are provided with the appropriate compensations and that all administrative measures are in line with the law. It also allows project affected persons not to lose time and resources from going through lengthy administrative and legal procedures. Grievances are first preferred to be settled amicably.

APSCL has set-up a grievance redress committee that will address any complaints during both the construction and operational period of the project. But yet no grievance is recorded regarding this project.

Flowchart of Complain /Grievance Procedure



The representation in the committee makes project affected persons to have trust and build confidence in the system. The grievance redress committee reports its plan and activities to the Implementation committee. The following list presents members of the committee.

Table 2: Members of the Committee of Grievance Redress (GRC)

Sl No	Designation
1.	Project Director (Chief Engineer), 400 MW (East) Project, APSCL.
2.	Chief Engineer (O&M), APSCL.
3.	Manager (HRM), APSCL.
4.	Manager (HS&E), APSCL.
5.	Deputy Manager (Security & Discipline), APSCL.
6.	Assistant Manager (Security & Discipline), APSCL.
7.	Chairman, Ashuganj Union Parishad, Member.

GRC will maintain a Complaints Database, which will contain all the information on complaints or grievances received from the communities or other stakeholders. This would include: the type of complaint, location, time, actions to address these complaints, and final outcome.

The procedures to be followed and adopted by the grievance redress should be transparent and simple to understand or uniform process for registering complaints provide project affected persons with free access to the procedures. The response time between activating the procedure and reaching a resolution should be as short as possible. An effective monitoring system will inform project management about the frequency and nature of grievances. GRC will arrange half yearly meetings where the activities and the outcomes/measures taken according to the Complaints Database are to be monitored and reviewed by third party consultant to ensure the required transparency. In addition to the above, if there are any grievances related to environmental management issues in the project area, the GRC will record these grievances and suggestions and pass it on to the relevant consultant for necessary action and follow-up.

GRC will be responsible to response for the grievances within a time limit. The initial movement to identify the causes should be taken within 48 hours. The GRC will not take more than two weeks to take the final initiative.

In case a dispute is not resolved by arbitrational tribunal, then if any of the Party disagrees, the aggrieved party has the right to appeal to the ordinary courts of law. However, the preferred option of dispute settlement ought to be the option of settling the dispute amicably because recourse to courts may take a very long-time even years before a final decision is made and therefore, should not be the preferred option for both parties.

Figure 11: Photograph of Suggestion/Complain Box

5.0 CONCLUSION AND RECOMMENDATION

The social safeguard monitoring report consists of 8th Semiannually social monitoring reporting based on identified parameters in ESIA during construction phase. But till now no grievance is recorded for the project construction activities. There is no land acquisition and resettlement issue for this project because it is establishing inside the APSCL's existing plant premises replacing old one combined cycle power plant. Development of the site for this project has no impact on livelihoods or income of any households or people. No issues are triggered under ADB safeguard policy and no population will be impacted by the project at this site. So, no negative impact was found on the socio-environment due to this project. During construction activities all of the mitigation measures will be taken following ADB Environmental Safeguard Policy 2009, IFC/World Bank Thermal Power Plant Guideline 2008 and 2017 and DoE, Bangladesh guideline and suggestive and recommended measures in the EIA.

Finally, it can be concluded that the project has no detrimental impact for short period on the social environment during the period from July to December, 2019.

30/12/2019
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