

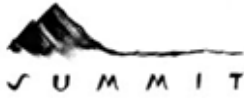


Summit Meghnaghat Power Company Limited  
Annual Public Environmental & Social  
Monitoring Report  
1<sup>st</sup> January – 31<sup>st</sup> December 2017



**Annual Public Environmental & Social Monitoring Report**

**Date: Jan'2017 – Dec'2017**



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## 1.0 Project Status

### 1.1 Project Description

Summit Meghnaghat Power Company Limited (SMPCL) is located at about 3km west of Dhaka-Chittagong Highway, about 28 km south-east of Dhaka and about 16km road distance from Narayanganj river port. The site can be reached by road from Dhaka or from Narayanganj. Narayanganj is also at close proximity with Dhaka and most readily communicable through inter-district road and railway links.

Pursuant with the Implementation Agreement (IA) with the Government of Bangladesh (GoB) and the Power Grid Company of Bangladesh (PGCB), SMPCL had set up a dual fuel (Natural Gas/ Liquid Fuel Oil) fired combined cycle power plant (hereinafter called 'Project') at Meghnaghat, Narayanganj in Bangladesh, with the capacity of the Project being 335 MW on natural gas and 305 MW on HSD.

### 1.2 Milestone

| Activity                             | Date  |
|--------------------------------------|---|
| IA, PPA, GSA, LLA                    | 12 <sup>th</sup> May'2011                     |
| FSA & Project effective Date         | 3 <sup>rd</sup> August'2011                   |
| 230 KV Switchyard Charged Date       | 2 <sup>nd</sup> February'2014                 |
| GT-1 First Fire Date                 | 23 <sup>rd</sup> February'2014                |
| GT-1 First Synchronize to Grid       | 3 <sup>rd</sup> March'2014                    |
| GT-2 First Fire Date                 | 21 <sup>st</sup> March'2014                   |
| GT-2 First Synchronize to Grid       | 23 <sup>rd</sup> March'2014                   |
| Reliability run test of Simple Cycle | 21 <sup>st</sup> to 28 <sup>th</sup> May'2014 |
| SC Commercial Operation Date         | 29 <sup>th</sup> May'2014                     |
| CC Commercial Operation Date         | 1 <sup>st</sup> June'2015                     |

### 1.3 Contact Informations

- i. A.N.M. Tariqur Rashid, DMD, CEO & Director, Summit Meghnaghat Power Company Limited  
[r\\_tariqur@summit-centre.com](mailto:r_tariqur@summit-centre.com)
- ii. Md.Reaz Uddin, COO & Director, Summit Turbine Division  
[reaz.uddin@summit-centre.com](mailto:reaz.uddin@summit-centre.com)
- iii. Md.Mizanur Rahman, DGM, Operaton & Compliance, SMPCL  
[mizanur.rahman@summit-centre.com](mailto:mizanur.rahman@summit-centre.com)
- iv. Nowroze Ahmed, Assistant Manager-EHS, SMPCL  
[nowroze.ahmed@summit-centre.com](mailto:nowroze.ahmed@summit-centre.com)

## 2.0 Description of the Environmental Management System

SMPCL has formed a management system to achieve the aims of SMPCL EHS policy. Management system standard of ISO 14001:2004, OSHA 18001:2007 & ISO 9001:2008 have been established and SMPCL has achieved these certifications on 1<sup>st</sup> January'2017.

The ISO certificate award ceremony has been held on 7<sup>th</sup> May 2016 at SMPCL. Honourable Director and COO Md.Reaz Uddin of SMPCL and Country Director from TuV Austria were present at the ceremony.



Please see [Annexure-1 : ISO Certificates](#)

The first surveillance audit has been conducted on 5th February 2017. Quarterly Environmental Report has been submitted to Department of Environment, Ministry of Environment & Forest as per conditions given in Environment Clearance Certificate.

## 2.1 Policy & Procedures

SMPCL O&M team and Kepco-KPS follow the EHS policy and procedures which are approved by the Board of Directors of Summit Meghnaghat Power Company Limited. This policy will be reviewed and revised time to time or whenever required to comply with the recognized standard for achieving the excellence in accordance with the frequency mentioned in Plant policy. Total 17 procedures are approved in EHS category and those are stated below:

1. SMPCL- EHS- 001 EHS Policy
2. SMPCL- EHS -002 Permit to Work
3. SMPCL- EHS -003 Caustic, Acid & Chlorine Handling Procedure
4. SMPCL- EHS -004 Emergency Response Procedure
5. SMPCL- EHS -005 Electrical Safety Program
6. SMPCL- EHS -006 First Aid
7. SMPCL- EHS -007 Environmental & Social Management Plan & Procedure
8. SMPCL- EHS -008 Spill Prevention & Response Procedure
9. SMPCL- EHS -009 Spill & Release Reporting Procedure
10. SMPCL- EHS -010 Waste Management Procedure
11. SMPCL- EHS -011 Community Development Procedure
12. SMPCL- EHS-012 Grievance Redress Mechanism Procedure
13. SMPCL- EHS-013 Noise Exposure Evaluation & Hearing Conservation
14. SMPCL- EHS-014 Compressed Gas Cylinder Management Procedure
15. SMPCL- EHS-015 Flammable Liquid Handling
16. SMPCL- EHS-016 Machine Guarding Procedure
17. SMPCL-EHS-017 Pest Control Procedure

SMPCL policy to conduct activities in such a way as to take foremost account of the health and safety of ourselves and of other persons and preservation of environment. We will adhere to the highest standards for the safe operation of the plant and protection of ourselves, visitors, contractors, suppliers, contract workers, customers, the community and the environment in which we do business.

Inherent in our approach is the commitment to raise awareness of the potential effects of operations of power plant on the health, safety and environment and to ensure that personnel



are fully aware of these issues and contribute to their resolution and in instilling responsibility as an intrinsic feature of all its practices and procedures.

We are committed to maintain safe and healthy working conditions to prevent injury and ill health, protection of the environment, equipment and systems of work for all of us including our neighbours', and to provide such information, training, supervision, and allocation of resource as we need for this purpose. We also accept our responsibility for the health and safety of other people who may be affected by our activities along with the environment around us.

These aims will be achieved by:

Complying with applicable local laws, regulations and standards. In absence of appropriate legislation, requirements of corporate and similar industrial good practice, where reasonably pertinent, will be applied;

Communicating openly with employees, contractors, visitors and affected parties to promote a system of enhanced health, safety and environment;

Following a process of risk and impact management that will continuously reduce the health and safety risks and protect the environment associated with the company's business activities;

Monitoring on a regular basis, the health and safety effects of its activities on employees, and affected parties in the work environment with the view of improving the systems;

Strive to seek opportunities to minimize and/or prevent pollution through the implementation of cost effective new technology and the optimization of existing systems. Ensure safe treatment and disposal of waste.


Implementing health, safety and environment management systems based on ISO and OSHAS standards;

Setting and reviewing of OH&S and environmental objectives and targets, continual improvement and compliance with this policy will be monitored through a process of internal and external auditing and management review.

Quarterly Environmental report was submitted to department of environment as per condition given in environment clearance certificate.

A large billboard has been posted at the outfall area to create awareness among the fishermen not to fish at certain area where written both in Bengali (local language) and in English with reflective type material "Swirling and Heavy current, caused by large volume of flowing water may prove fatal to those who come near to the outfall area. Therefore it is advisable not to go fishing within 80 meter in and around this outfall area.

Billboard texts



সতর্কীকরণ বিজ্ঞপ্তি

বিদ্যুৎ কেন্দ্রের পানি বের হওয়ার স্থানে অনেক পানি একসঙ্গে বের হওয়ার জন্য স্রোতের এবং ঘূর্ণিপাকের সৃষ্টি হওয়ায় এর নিকটে আসলে জানমালের ক্ষতি হওয়ার সম্ভাবনা রয়েছে।

তাই এই স্থান হতে চতুর্দিকে ৮০ মিটার জায়গায় মৎস্য শিকার না করার জন্য অনুরোধ করা যাচ্ছে।

Swirling and heavy current, caused by large volume of flowing water may prove fatal to those who come near to this Outfall area.

Therefore, it is advisable not to go fishing within 80 meter in and around this Outfall area.

Designated security guard has been deployed with one hand mike to warn surrounding peoples. Railing has been installed in the outfall point to prevent fall. Cooling water outfall temperature is being monitored twice a day.

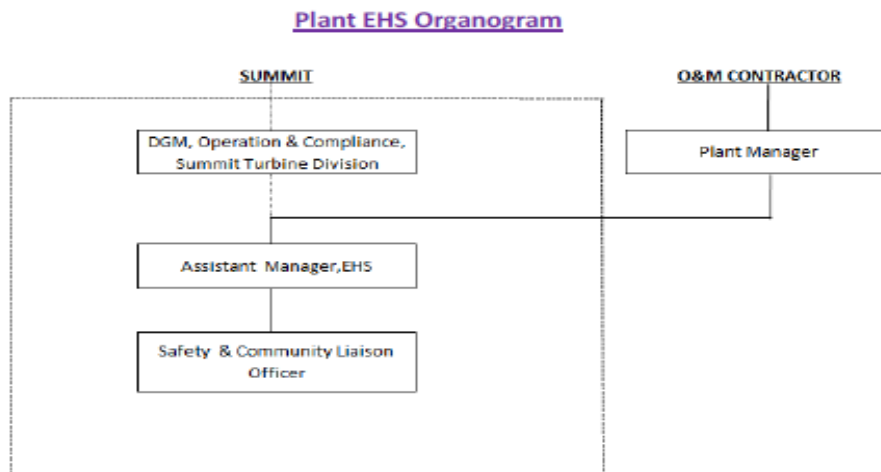
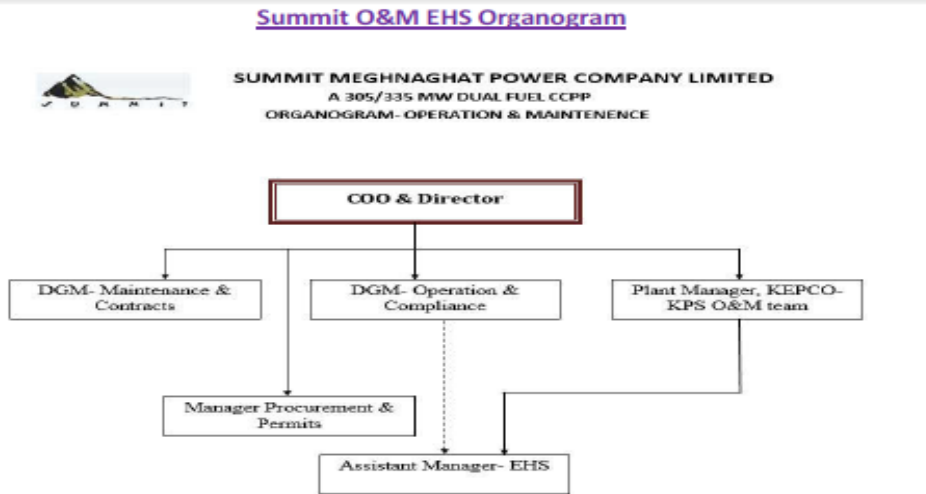
SMPCCL also conducts EHS committee meeting with all departmental heads regarding EHS issues on monthly basis. GRC meeting also conducted as per the schedule. Safety briefing was given to housekeeping contractor to improve housekeeping at the site.



## 2.2 Organizational Structure

SMPCL has developed an organizational structure with well-defined roles, responsibilities and authorities. SMPCL has employed a qualified Asst. EHS Manager who reports to the Plant Manager of O&M contractor and DGM of Summit Meghnaghat Power Plant. The Safety and Community Liaison Officer is also the member of the plant EHS team. EHS committee is functional in the plant. They hold monthly meetings to address all EHS issues and findings.

### O&M EHS Organogram:





## EHS Committee Members

EHS Committee is headed by the Plant Manager, Summit Meghnaghat Power Company Limited and others members are as follows

- Plant Manager (President)
- DGM, Operation & Compliance, Summit Turbine Division (Member)
- DGM, Maintenance & Contracts, Summit Turbine Division (Member)
- General Manager, Operation (Secretary)
- Asst. Manager, EHS (Asst. Secretary)
- GM, Maintenance (Member)
- General Manager, I&C and Electrical. (Member)
- Shift charge Engineer (Member)
- Senior Engineer Mechanical (Member)
- Senior Engineer I&C (Member)
- Senior Engineer Electrical (Member)
- Safety & Community Liaison Officer (Member)
- GM, Admin (Member)
- Manager, Procurement Manager (Member)
- Deputy Manager Procurement (Member)
- Asst /Manager, HR (Member)
- Manager, Accounts (Member)

Summit Corporation has also developed Corporate E&S team under the leadership of DMD, CEO & Director of Summit Turbine Division. They work together with all power plants EHS team.

### 2.3 Environmental Targets

We will continue to review our reporting not only from a timeline standpoint but also from a compliance and quality standpoint. We will comply with all local laws and regulations and all corporate guidelines.

Please See [Annexure-2: IMS Objectives and Target](#)

### 2.4 Environmental Performance

SMPCL is complying with the term and conditions which are given at environmental clearance certificated.

To date, the project company has not received any formal complaints or claims from community of the project site or any other stakeholders concerning our environmental performance.

### 2.5 Project Operational Statistics

| Month                      | Jan-17 | Feb-17 | Mar-17 | Apr-17  | May-17  | Jun-17  | Jul-17  | Aug-17  | Sep-17 | Oct-17  | Nov-17 | Dec-17 | YTD     |
|----------------------------|--------|--------|--------|---------|---------|---------|---------|---------|--------|---------|--------|--------|---------|
| Generation (MWH)           | -      | -      | -      | 130,787 | 180,893 | 140,809 | 136,502 | 175,769 | 63,511 | 105,288 | -      | -      | 933,559 |
| Commercial Availability(%) | 100.00 | 100.00 | 100.00 | 100.00  | 100.00  | 98.83   | 100.00  | 100.00  | 60.78  | 66.90   | 100.00 | 100.00 | 93.87   |
| EFOF(%)                    | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 1.17    | 0.00    | 0.00    | 8.25   | 9.54    | 0.00   | 0.00   | 1.58    |
| Capacity Factor(%)         | 0.00   | 0.00   | 0.00   | 57.94   | 76.50   | 62.06   | 58.32   | 75.24   | 27.64  | 44.59   | 0.00   | 0.00   | 33.76   |
| Export(MWH)                | -      | -      | -      | 127,234 | 173,602 | 136,285 | 132,350 | 170,734 | 60,690 | 101,180 | -      | -      | 902,076 |
| Aux Consumption(MWH)       | -      | -      | -      | 3,553   | 4,964   | 4,524   | 4,152   | 5,035   | 2,821  | 4,108   | -      | -      | 29,156  |





## 2.6 Project Environment, Health and Safety Statistics

### Health and Safety Statistics (From 1st Jan 17 to 31st Dec'17)

| Description          | Employee           | Contractor |
|----------------------|--------------------|------------|
|                      | YTD                | YTD        |
| Fatality             | 0                  | 0          |
| First Aid Cases      | 0                  | 1          |
| Near Miss            | 1                  | 0          |
| LTA/100, LTA/200,000 | 0.0                | 0.0        |
| Days Since Last LTA  | 1,313 (From SCCOD) |            |

### Environment (From 1st Jan 17 to 31st Dec'17)

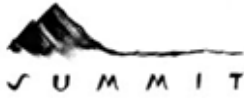
| Description                                  | Year To Date |
|--|--------------|
| No. of accident (air/effluent/spill)         | Nil          |
| Quantity of NOx Emission (Tons)              | 4.47         |
| Calculated CO2 Emission (Tons)               | 512,144.10   |
| CO2 equivalent, Total Green House Gas (Tons) | 515,066.80   |
| CH4 (Tons)                                   | 74.38        |
| Quantity of effluent (M <sup>3</sup> )       | 21,888.05    |
| Quantity of oily cloth (kg)                  | 50           |
| Quantity of used oil filter (pcs)            | Nil          |
| Quantity of Mud Cake (kg *)                  | 4,626.00     |
| Quantity of sludge (kg)                      | Nil          |
| Quantity of used oil (Drum)                  | Nil          |
| Generation of medical waste (kg)             | Nil          |

Please see [Annexure-3: Annual LTA statistic report 2017](#)

### 3.0 EHS Training:

A yearly EHS training calendar was prepared by SMPCL in consultation with KEPCO, the O&M Contractor. This training calendar is scheduled on monthly basis. Monthly Technical Trainings were conducted for the O&M employees. SMPCL also arranged external training for their employees.

The target group for EHS training not only employee rather we cover office staffs, kitchen staffs, security guards, office drivers and subcontractor personnel. The scan copy of the training schedule is as below:



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| Month  |  | Target Group   | Training Conducted by                       | January | February | March | April | May | June | July | August | September | October | November | December | Remarks |
|--|--|--|---|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|---------|
| EHS Policy & Practice & Grievance Procedure  |  | MMT, E&I Team, Operation team, A&P Team & (Security Personnel, Office staff, Drivers, Kitchen staff) | Nowroza Ahmed                               |         |          |       |       |     |      |      |        |           |         |          |          |         |
| 1) All work related PPE requirement SCBA operating practice  |  | MMT, E&I Team, Operation team, A&P   | Mid. Mushfuqur Rahman & Mid. Moktar Hossain |         |          |       |       |     |      |      |        |           |         |          |          |         |
| 2) Work Permit ( Work permit, Hot work permit, confined work permit, Excavation permit, work at height Etc.) |  | MMT, E&I Team, Operation team, A&P   | Mohammad Sakawatul Bari                     |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Fire Fighting, prevention & Control  |  | MMT, E&I Team, Operation team, A&P   | Mid. Saiful Islam (Ope)                     |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Fall Prevention & Protection & Scaffolding   |  | MMT, E&I Team, Operation team, A&P   | Ihsanul hossain/Mohammad Sakawatul Bari     |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Compressed Gas Cylinder Safety   |  | MMT, E&I Team, Operation team, A&P   | Mid. Saiful Islam (MMD)                     |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Chemical Handling & Waste Management   |  | MMT, E&I Team, Operation team, A&P   | Saman Sarkar                                |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Basic IMS Training   |  | MMT, E&I Team, Operation team, A&P Team  | Mid. Khurum Samed Shourvy                   |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Emergency Response plan  |  | MMT, E&I Team, Operation team, A&P   | Mid. Mushfuqur Rahman (Ope)                 |         |          |       |       |     |      |      |        |           |         |          |          |         |
| First Aid Training   |  | Security Personnel, Office staff, Drivers, Kitchen staff, MMT, E&I Team, Operation team, A&P Team    | N/A   |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Hazard Communication & Flammable Materials Handling  |  | MMT, E&I Team, Operation team, A&P   | Nowroz Ahmed (EHS)                          |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Basic Electrical Safety Training   |  | MMT, E&I Team, Operation team, A&P   | Muhammad Monwar Hossain                     |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Behavioral guideline for Personnel handling by security  |  | Security Personnel   | N/A   |         |          |       |       |     |      |      |        |           |         |          |          |         |
| Chemical & Oil Spill Control   |  | MMT, E&I Team, Operation team, A&P   | Nowroza Ahmed (EHS)                         |         |          |       |       |     |      |      |        |           |         |          |          |         |

Plant Manager  
SMPL

DGM, Operation  
SMPL

Chief Operating Officer & Director  
SMPL

Each year this schedule is reviewed and required changes are adopted for continual improvement. Training topic selection is done through training need assessment.

| EHSTraining Details-2017                    |           |   |                            |                     |                |
|---|-----------|---|----------------------------|---------------------|----------------|
| Sl  | Month     | Training Topics   | Duration of Training Hours | No. of Participants | Total Man hour |
| 1   | January   | EHS Policy & Practice & Grievance Procedure   | 1                          | 51                  | 51             |
| 2   | February  | All work related PPE requirement & SCBA operating practice  | 1                          | 32                  | 32             |
| 3   | March     | Work Permit (Workpermit, Hot work permit, Confined Space work permit, Excavation work permit, Permit for Work at height etc.) | 1                          | 29                  | 29             |
| 4   | April     | Fire Fighting prevention & Control  | 1                          | 33                  | 33             |
| 5   | May       | Fall Prevention, Protection & Scaffolding   | 1                          | 31                  | 31             |
| 6   | June      | Compressed Gas Cylinder Safety  | 1                          | 25                  | 25             |
| 7   | July      | Chemical Handling & Waste Management & Basic IMS Training   | 1                          | 34                  | 34             |
| 8   | August    | Emergency Response plan   | 1                          | 30                  | 30             |
| 9   | September | Chemical & Oil Spill Control  | 1                          | 21                  | 21             |
|   |           | Basic First Aid (Refresher) Training  | 8                          | 71                  | 568            |
| 10  | October   | Hazard Communication & Flammable Materials Handling   | 1                          | 21                  | 21             |
| 11  | November  | Basic Electrical Safety Training  | 1                          | 24                  | 24             |
| 12  | December  | Behavioural Guideline for Personnel Handling by Security  | 1                          | 14                  | 42             |
| <b>Total Man-hour used for EHS training</b> |           |   |                            |                     | <b>913</b>     |

3.1 Scheduled in-house training

Jan'17

EHS training on “EHS Policy, Practice & Grievance Redressing Procedure” and Technical training “Demi Water Train and MBP Regeneration & Water Treatment & Waste Water Treatment Process” were conducted on 30th January 2017.



Please see [Annexure-4 EHS Training Report 2017](#)



#### Feb'17

EHS training on:  
all work related PPE requirement  
SCBA operating practice & technical training “Operation and Maintenance of UPS system” were  
conducted on 26<sup>th</sup> February 2018.  
The report is attached here for reference.

Please see [Annexure-4 EHS Training Report 2017](#)



### Mar'17

EHS training on Work Permit i.e. work permit, hot work permit, confined work permit, excavation permit, work at height etc. and technical training “Transformer Basics and its Protection” were conducted on 28<sup>th</sup> March 2017.

Please see [Annexure-4 EHS Training Report 2017](#)



### April'17

EHS training on Fire Fighting, prevention & Control and technical training on “Turbine supervisory instrumentation and over speed protection system in ST” were conducted on 20<sup>th</sup> April 2017.

Please see [Annexure-4 EHS Training Report 2017](#)



### May'17

EHS training on “Fall Prevention & Protection and Scaffolding” and technical training on “Drum level measurement and control system in SMPCL” were conducted on 23<sup>rd</sup> May 2017.

Please see [Annexure-4 EHS Training Report 2017](#)

### June'17

EHS training on “Compressed Gas Cylinder Safety” and technical training on “Generator Circuit Breaker operation and control” was conducted on 18<sup>th</sup> June 2017.

Please see [Annexure-4 EHS Training Report 2017](#)



### July'17

EHS training on (1) Chemical Handling & Waste Management, (2) Basic IMS Training and (3) technical training on “Maintenance skill on Rotating Equipment” were conducted on 23<sup>rd</sup> July 2017.

Please see [Annexure-4 EHS Training Report 2017](#)



### Aug'17

EHS training on “Emergency Response plan” and technical training on “Different types of control loop’s working principle” were conducted on 17<sup>th</sup> August 2017.

Please see [Annexure-4 EHS Training Report 2017](#)





### Sep'17

Scheduled EHS training on “Chemical & Oil Spill Control” and “First Aid” and technical training on “Blackout Management” were conducted on 19 and 20 September 2017 and 24<sup>th</sup> September 2017 respectively.

Please see [Annexure-4 EHS Training Report 2017](#)



### Oct'17

EHS training on “Hazard Communication & Flammable Materials Handling” and technical training “Operation and working principle of MOV, pneumatic control and hydraulic control valve” were conducted on 24<sup>th</sup> October 2017.

Please see [Annexure-4 EHS Training Report 2017](#)



### Nov'17

EHS training on “Basic Electrical Safety Training” and technical training on “230 KV switchyard operations” were conducted on 20<sup>th</sup> November 2017.

Please see [Annexure-4 EHS Training Report 2017](#)



### Dec'17

EHS training on “Behavioural guideline for Personnel handling for security personnel” and technical training on “Maintenance skill on control valves” were conducted on 27<sup>th</sup> December 2017.

Please see [Annexure-4 EHS Training Report 2017](#)



### Induction training for contractor labours

All the contractors and subcontractors are trained by SMPCL EHS personnel before employed to their job. On every 6 month interval refresher training are also conducted among the subcontractors' labours. EHS personnel briefly describe about the plant site safety rules and practices.



### Refresher Training for Security Personnel

Refresher training were arranged for security personnel's about plant policy, practice, grievance mechanism and first aid procedure etc.



### 3.2 External Training

#### First Aid (Refresher) Training:

As per EHS Training schedule first aid (refresher) trainings were conducted on 19 to 20 September 2017.

Please see [Annexure-5 First Aid \(Refresher\) Training](#)



### 4.0 Scheduled Borescope Inspection-2017

- ❑ Scheduled borescope inspection carried in both Gas Turbine in the month of September 2017 under GE's long term service agreement.
- ❑ Gas Turbine-1 : Small problem found in one of the bucket of Stage -1, OEM has given recommendation to conduct HGPI in one go as GT-1 already clocked 21,000 FFH and HGPI is scheduled in 24,000 FFH and performing maintenance to correct this problem would take around 10 -15 days whereas complete HGPI would be taking 18 -21 days.
- ❑ Gas Turbine-2 : All parts were found in good condition.



#### 4.1 HGPI in Gas Turbine-1 - 2017

- ❑ GE started RCA in parallel with HGPI in GT-1
- ❑ Gas Turbine-1: After successfully completed the HGPI, GT-1 was started on 15<sup>th</sup> October 2017.



#### 5.0 Management of EHS practice and monitoring

##### 5.1 EHS work practice

SMPCL is regularly monitoring overall site condition such as housekeeping, misuse of water, hot work, confined space work and work at height. PPE are being strictly maintained inside the plant. PPE zone has been declared inside the plant.

Hot work and Confined Space work system:

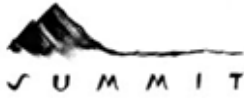
In the site all hot work and confined space work are done through permit to work system. Before performing hot work and confined space work, Summit O&M team take all precautionary measure such as barricading hot work area, keeping fire extinguishers near at hot work area, removing all combustible and flammable types materials from hot work area.

##### 5.2 Ambient parameters and record

Plant personnel are employed for monitoring overall environmental performance of different items like stack emission quality, ambient air quality, liquid effluent, noise and solid waste. The plant has developed a good waste management procedure for proper segregation disposal of different type of wastes. SMPCL has made an agreement with Department of Environment (DoE) approved vendor for disposing different types of wastes in an environment-friendly way.

**Effluent parameter Record:** Analytical test was done by Bangladesh Council of Scientific and Industrial Research (BCSIR)

| Parameter                    | DoE Standard | April'17 | October'17     |
|------------------------------|--------------|----------|----------------|
| pH                           | 6.0-9.0      | 6.6      | 6.19           |
| BOD at 20 ° C (mg/l)         | 50           | 3.29     | 2.14           |
| TDS (mg/l)                   | 2100         | 78.8     | 16.4           |
| COD (mg/l)                   | 200          | 7.52     | 3.92           |
| DO (mg/l)                    | 4.5-8        | 5.39     | 7.69           |
| TSS (mg/l)                   | 150          | 2        | 10.5           |
| Test was done Once in a year |              |          |                |
| Oil & Grease (mg/l)          | 10           |          | 7              |
| Cadmium (mg/l)               | 0.5          |          | Less than .001 |



|                                |      |  |                 |
|--------------------------------|------|--|-----------------|
| Manganese                      | 5    |  | Less than .05   |
| Lead (mg/l)                    | 0.1  |  | Less than .01   |
| Total Chromium (mg/l)          | 0.5  |  | Less than 0.005 |
| Copper (mg/l)                  | 0.5  |  | Less than 0.1   |
| Zn (mg/l)                      | 5    |  | Less than .05   |
| Hg (mg/l)                      | 0.01 |  | Less than .001  |
| Ammonia (NH3)                  | 5    |  | Less than 0.5   |
| Arsenic (As)                   | 0.2  |  | Less than .005  |
| Boron (B)                      | 2    |  | Less than 0.1   |
| Iron (Fe)                      | 2    |  | 0.41            |
| Nickel (Ni)                    | 1    |  | Less than 0.1   |
| Selenium (Se)                  | 0.05 |  | Less than 0.005 |
| Phenolic Compounds             | 1    |  | Less than 0.1   |
| Chloride (CL)                  | 600  |  | 1.61            |
| Fluoride (F)                   | 2    |  | Less than 0.5   |
| Nitrate (NO3)                  | 10   |  | 3.7             |
| Total Kjeldahl Nitrogen (As N) | 100  |  | Less than 5     |
| EC $\mu$ S/cm                  | 1200 |  | 35.7            |

**Ambient air quality test record:**

SMPCL used to do test of ambient parameters by third party, DoE also used to take sample and do test in their lab.

Please see [Annexure-6 Ambient air quality test record](#)

**Installed AAQMS monitoring Data: (January17~December'17):**

| Sample Frequency (quarterly)           | Ambient Air Quality Parameter           | World Bank Group/IFC Maximum Levels | Performance In WBG/IFC Units Annual Average | Host Country Regulatory Limits and units | Performance in Host Country units Annual average |
|--|---|-------------------------------------|---|--|--|
| <b>Monitoring Location:- Station-1</b> |   |                                     |   |  |  |
| <b>Annual arithmetic mean</b>          |   |                                     |   |  |  |
| 24 Hours                               | Particulate Matter (PM <sub>10</sub> )  | 150 $\mu$ g/m <sup>3</sup>          | 29.06 $\mu$ g/m <sup>3</sup>                | 150 $\mu$ g/m <sup>3</sup>               | 29.06 $\mu$ g/m <sup>3</sup>                     |
| 24 Hours                               | Particulate Matter (PM <sub>2.5</sub> ) | 75 $\mu$ g/m <sup>3</sup>           | 19.02 $\mu$ g/m <sup>3</sup>                | 65 $\mu$ g/m <sup>3</sup>                | 19.02 $\mu$ g/m <sup>3</sup>                     |
| 24 Hours                               | SOx                                     | 125 $\mu$ g/m <sup>3</sup>          | 5.386 $\mu$ g/m <sup>3</sup>                | 365 $\mu$ g/m <sup>3</sup>               | 5.386 $\mu$ g/m <sup>3</sup>                     |
| Hourly                                 | NOx                                     | 200 $\mu$ g/m <sup>3</sup>          | 4.13 $\mu$ g/m <sup>3</sup>                 | 100 $\mu$ g/m <sup>3</sup>               | 4.13 $\mu$ g/m <sup>3</sup>                      |
| 8 Hourly                               | SPM                                     | Not set by IFC                      | 40.33 $\mu$ g/m <sup>3</sup>                | 200 $\mu$ g/m <sup>3</sup>               | 40.33 $\mu$ g/m <sup>3</sup>                     |
| <b>Maximum (24 hour average)</b>       |   |                                     |   |  |  |
| 24 Hours                               | Particulate Matter (PM <sub>10</sub> )  | 150 $\mu$ g/m <sup>3</sup>          | 145 $\mu$ g/m <sup>3</sup>                  | 150 $\mu$ g/m <sup>3</sup>               | 145 $\mu$ g/m <sup>3</sup>                       |
| 24 Hours                               | Particulate Matter (PM <sub>2.5</sub> ) | 75 $\mu$ g/m <sup>3</sup>           | 90 ** $\mu$ g/m <sup>3</sup>                | 65 $\mu$ g/m <sup>3</sup>                | 90 ** $\mu$ g/m <sup>3</sup>                     |
| 24 Hours                               | SOx                                     | 125 $\mu$ g/m <sup>3</sup>          | 9 $\mu$ g/m <sup>3</sup>                    | 125 $\mu$ g/m <sup>3</sup>               | 9 $\mu$ g/m <sup>3</sup>                         |
| Hourly                                 | NOx                                     | 200 $\mu$ g/m <sup>3</sup>          | 9 $\mu$ g/m <sup>3</sup>                    | 100 $\mu$ g/m <sup>3</sup>               | 9 $\mu$ g/m <sup>3</sup>                         |
| 8 Hourly                               | SPM                                     | Not set by IFC                      | 195 $\mu$ g/m <sup>3</sup>                  | 200 $\mu$ g/m <sup>3</sup>               | 195 $\mu$ g/m <sup>3</sup>                       |



| Sample Frequency (quarterly)           | Ambient Air Quality Parameter           | World Bank Group/IFC Maximum Levels | Performance In WBG/IFC Units Annual Average | Host Country Regulatory Limits and units | Performance in Host Country units Annual average |
|--|---|-------------------------------------|---|--|--|
| <b>Monitoring Location:- Station-2</b> |   |                                     |   |  |  |
| <b>Annual arithmetic mean</b>          |   |                                     |   |  |  |
| 24 Hours                               | Particulate Matter (PM <sub>10</sub> )  | 150 µg/m <sup>3</sup>               | 49.99 µg/m <sup>3</sup>                     | 150 µg/m <sup>3</sup>                    | 49.99 µg/m <sup>3</sup>                          |
| 24 Hours                               | Particulate Matter (PM <sub>2.5</sub> ) | 75 µg/m <sup>3</sup>                | 32.57 µg/m <sup>3</sup>                     | 65 µg/m <sup>3</sup>                     | 32.57 µg/m <sup>3</sup>                          |
| 24 Hours                               | SO <sub>x</sub>                         | 125 µg/m <sup>3</sup>               | 5.69 µg/m <sup>3</sup>                      | 365 µg/m <sup>3</sup>                    | 5.69 µg/m <sup>3</sup>                           |
| Hourly                                 | NO <sub>x</sub>                         | 200 µg/m <sup>3</sup>               | 3.98 µg/m <sup>3</sup>                      | 100 µg/m <sup>3</sup>                    | 3.98 µg/m <sup>3</sup>                           |
| 8 Hourly                               | SPM                                     | Not set by IFC                      | 61.45 µg/m <sup>3</sup>                     | 200 µg/m <sup>3</sup>                    | 61.45 µg/m <sup>3</sup>                          |
| <b>Maximum (24 hour average)</b>       |   |                                     |   |  |  |
| 24 Hours                               | Particulate Matter (PM <sub>10</sub> )  | 150 µg/m <sup>3</sup>               | 244** µg/m <sup>3</sup>                     | 150 µg/m <sup>3</sup>                    | 244** µg/m <sup>3</sup>                          |
| 24 Hours                               | Particulate Matter (PM <sub>2.5</sub> ) | 75 µg/m <sup>3</sup>                | 185** µg/m <sup>3</sup>                     | 65 µg/m <sup>3</sup>                     | 185** µg/m <sup>3</sup>                          |
| 24 Hours                               | SO <sub>x</sub>                         | 125 µg/m <sup>3</sup>               | 9 µg/m <sup>3</sup>                         | 125 µg/m <sup>3</sup>                    | 9 µg/m <sup>3</sup>                              |
| Hourly                                 | NO <sub>x</sub>                         | 200 µg/m <sup>3</sup>               | 9 µg/m <sup>3</sup>                         | 100 µg/m <sup>3</sup>                    | 9 µg/m <sup>3</sup>                              |
| 8 Hourly                               | SPM                                     | Not set by IFC                      | 292.92 **µg/m <sup>3</sup>                  | 200 µg/m <sup>3</sup>                    | 292.92 **µg/m <sup>3</sup>                       |



| Sample Frequency (quarterly)            | Ambient Air Quality Parameter           | World Bank Group/IFC Maximum Levels | Performance In WBG/IFC Units Annual Average | Host Country Regulatory Limits and units | Performance in Host Country units Annual average |
|---|---|-------------------------------------|---|--|--|
| <b>Monitoring Location: - Station-3</b> |   |                                     |   |  |  |
| <b>Annual arithmetic mean</b>           |   |                                     |   |  |  |
| 24 Hours                                | Particulate Matter (PM <sub>10</sub> )  | 150 µg/m <sup>3</sup>               | 27.77 µg/m <sup>3</sup>                     | 150 µg/m <sup>3</sup>                    | 27.77 µg/m <sup>3</sup>                          |
| 24 Hours                                | Particulate Matter (PM <sub>2.5</sub> ) | 75 µg/m <sup>3</sup>                | 12.22 µg/m <sup>3</sup>                     | 65 µg/m <sup>3</sup>                     | 12.22 µg/m <sup>3</sup>                          |
| 24 Hours                                | SO <sub>x</sub>                         | 125 µg/m <sup>3</sup>               | 2.92 µg/m <sup>3</sup>                      | 365 µg/m <sup>3</sup>                    | 2.92 µg/m <sup>3</sup>                           |
| Hourly                                  | NO <sub>x</sub>                         | 200 µg/m <sup>3</sup>               | 4.01 µg/m <sup>3</sup>                      | 100 µg/m <sup>3</sup>                    | 4.01 µg/m <sup>3</sup>                           |
| 8 Hourly                                | SPM                                     | Not set by IFC                      | 34.19 µg/m <sup>3</sup>                     | 200 µg/m <sup>3</sup>                    | 34.19 µg/m <sup>3</sup>                          |
| <b>Maximum (24 hour average)</b>        |   |                                     |   |  |  |
| 24 Hours                                | Particulate Matter (PM <sub>10</sub> )  | 150 µg/m <sup>3</sup>               | 147 µg/m <sup>3</sup>                       | 150 µg/m <sup>3</sup>                    | 147 µg/m <sup>3</sup>                            |
| 24 Hours                                | Particulate Matter (PM <sub>2.5</sub> ) | 75 µg/m <sup>3</sup>                | 63 µg/m <sup>3</sup>                        | 65 µg/m <sup>3</sup>                     | 63 µg/m <sup>3</sup>                             |
| 24 Hours                                | SO <sub>x</sub>                         | 125 µg/m <sup>3</sup>               | 9 µg/m <sup>3</sup>                         | 125 µg/m <sup>3</sup>                    | 9 µg/m <sup>3</sup>                              |
| Hourly                                  | NO <sub>x</sub>                         | 200 µg/m <sup>3</sup>               | 9 µg/m <sup>3</sup>                         | 100 µg/m <sup>3</sup>                    | 9 µg/m <sup>3</sup>                              |
| 8 Hourly                                | SPM                                     | Not set by IFC                      | 154.88 µg/m <sup>3</sup>                    | 200 µg/m <sup>3</sup>                    | 154.88 µg/m <sup>3</sup>                         |



| Sample Frequency (e.g. quarterly)                | Ambient Air Quality Parameter           | World Bank Group/IFC Maximum Levels | Performance In WBG/IFC Units Annual Average | Host Country Regulatory Limits and units | Performance in Host Country units Annual average |
|--|---|-------------------------------------|---|--|--|
| <b>Monitoring Location:- Station-4 (Village)</b> |   |                                     |   |  |  |
| <b>Annual arithmetic mean</b>                    |   |                                     |   |  |  |
| 24 Hours   | Particulate Matter (PM <sub>10</sub> )  | 150 µg/m <sup>3</sup>               | 39.07µg/m <sup>3</sup>                      | 150 µg/m <sup>3</sup>                    | 39.07 µg/m <sup>3</sup>                          |
| 24 Hours   | Particulate Matter (PM <sub>2.5</sub> ) | 75 µg/m <sup>3</sup> *              | 26.88 µg/m <sup>3</sup>                     | 65 µg/m <sup>3</sup>                     | 26.88 µg/m <sup>3</sup>                          |
| 24 Hours   | SO <sub>x</sub>                         | 125 µg/m <sup>3</sup>               | 24.68 µg/m <sup>3</sup>                     | 365 µg/m <sup>3</sup>                    | 24.68µg/m <sup>3</sup>                           |
| Hourly   | NO <sub>x</sub>                         | 200 µg/m <sup>3</sup>               | 50.27 µg/m <sup>3</sup>                     | 100 µg/m <sup>3</sup>                    | 50.27 µg/m <sup>3</sup>                          |
| 8 Hourly   | SPM                                     | Not set by IFC                      | 51.62 µg/m <sup>3</sup>                     | 200 µg/m <sup>3</sup>                    | 51.62 µg/m <sup>3</sup>                          |
| <b>Maximum (24 hour average)</b>                 |   |                                     |   |  |  |
| 24 Hours   | Particulate Matter (PM <sub>10</sub> )  | 150 µg/m <sup>3</sup>               | 205**µg/m <sup>3</sup>                      | 150 µg/m <sup>3</sup>                    | 205**µg/m <sup>3</sup>                           |
| 24 Hours   | Particulate Matter (PM <sub>2.5</sub> ) | 75 µg/m <sup>3</sup>                | 133**µg/m <sup>3</sup>                      | 65 µg/m <sup>3</sup>                     | 133**µg/m <sup>3</sup>                           |
| 24 Hours   | SO <sub>x</sub>                         | 125 µg/m <sup>3</sup>               | 65 µg/m <sup>3</sup>                        | 125 µg/m <sup>3</sup>                    | 65 µg/m <sup>3</sup>                             |
| Hourly   | NO <sub>x</sub>                         | 200 µg/m <sup>3</sup>               | 53 µg/m <sup>3</sup>                        | 100 µg/m <sup>3</sup>                    | 53 µg/m <sup>3</sup>                             |
| 8 Hourly   | SPM                                     | Not set by IFC                      | 265.2 µg/m <sup>3</sup>                     | 200 µg/m <sup>3</sup>                    | 265.2 µg/m <sup>3</sup>                          |

\* Interim Target is 75µg/m<sup>3</sup> and guideline is 25µg/m<sup>3</sup> on 24hours basis.

\*\*From Month of Jan'17-10th April'2017 and Nov'17 -December'17 period SMPCL was in full shutdown condition (No demand from Off taker). Those months are generally dry season in Bangladesh. (PM10 & PM2.5) January'18 (SPM, PM10 &PM2.5) & Feb'18 (PM10 & PM 2.5) has exceeded the DoE standard limit. As plant was in shutdown condition, there is no contribution of the plant operation to this exceedance.

There are many cement industry, paper, plastic and various consumer production industry which might contribution to the cause of exceedance.



**Plant underground water quality test record**

This test havebeen conducted in quaterly basis.

| Parameter                                     | Jan'17          | April'17        | July'17         | Oct'17                        |
|---|-----------------|-----------------|-----------------|-------------------------------|
| pH at 24.1 °C                                 | 7.07            | 6.9             | 7.56            | 6.85                          |
| Total Alkalinity (as CaCO <sub>3</sub> ) mg/L | 151             | 162             | 154             | 156                           |
| Manganese (MN) mg/L                           | 1.94            | 2.03            | 2.05            | 1.97                          |
| Nitrate-Nitrogen (NO <sub>3</sub> -N) mg/L    | less than 3.0   | 2.02            | 3               | less than 3.0 as nitrate(NO3) |
| Total Hardness as CaCO <sub>3</sub>           | 270             | 282             | 287             | 288                           |
| Chloride (Cal)                                | 295             | 271             | 292             | 328                           |
| Arsenic (As) mg/L                             | Less than 0.005 | Less than 0.005 | less than 0.005 | less than 0.005               |
| Iron (Fe) mg/L                                | 0.63            | 0.89            | less than 0.2   | 0.48                          |
| (TDS) mg/L                                    | 562             | 676             | 691             | 669                           |
| Lead (Pb) mg/L                                | Less than 0.01  | Less than 0.01  | Less than 0.01  | Less than 0.01                |
| Turbidity (NTU)                               | 5.97            | 10.5            | 3.1             | 2.89                          |

**River water quality test record:** River water sample tests were also carried out in quaterly basis.

| Parameter Name  | Jan'17 (intake ) | April'17 (Intake) | July'17 (Outfall ) | July'17 DPHE (intake ) | July'17 DPHE (Outfall ) | Oct'17 (Intake ) | Oct'17 (Outfall ) |
|-----------------|------------------|-------------------|--------------------|------------------------|-------------------------|------------------|-------------------|
| pH              | 7.42             | 5.6               | 6.65               | 8.1                    | 7.7                     | 6.43             | 6.65              |
| TSS (mg/L)      | 3.6              | 41.6              | 23.8               | 5                      | 7                       | 19.8             | 2.2               |
| EC(µS/cm)       | 118              | 85.5              | 74.3               | 81                     | 78                      | 65.1             | 65.9              |
| DO (mg/L)       | 7.32             |                   | 6.51               | 7.96                   | 7.53                    | 6.66             | 6.96              |
| COD (mg/L)      | 3.92             | 41.4              | 5.88               | 48                     | 72                      | 2.94             | 6.58              |
| BOD (mg/L)      | 2.25             | 26                | 3.21               | 13                     | 20                      | 1.26             | 2.44              |
| Turbidity (NTU) | 4.97             | 48                | 22.3               | 7.82                   | 12.4                    | 15.2             | 19.2              |
| TDS (mg/L)      | 56               | 68.4              | 57.4               | 37                     | 38                      | 53.8             | 30.8              |

**River water temperature monitoring record:** Please find the day-wise river water inlet and outlet temperature tracking record for the year of 2017.

Please See [Annexure-7 River water temperatureMonitoring record](#)

**Noise parameter Record:**

Noise exposure evolution and workplace noise monitoring have been carried in 2017 as per SMPCL-EHS-013 (Noise Exposure Evaluation & Hearing Conservation Procedure).

Please See [Annexure-8 Noise parameter Record](#)

**Waste generation & disposal Record**

SMPCL has developed waste management procedure (SMPCL-EHS-010). SMPCL has made an agreement with DoE approved the contractor for disposing of different category of wastes in environment sound way. The record was maintained for monthly waste generation and disposal.

Please See [Annexure-9 Waste generation& disposal Record](#)

**6.0 Site visit details:**

During the reporting period Bangladesh Police, Bangladesh Fire Service & Civil Defence personnel, IFC personnel, Bank Asia Personnel, City Bank Personnel, and others personnel's visited SMPCL. They took a site tour after completing the safety induction training. They visited each establishment such as Control Room, GT hall, ST hall, HRSG-1& HRSG-2, Switchyard etc.

**Study tour at plant :**

Students of Daniel International School visited SMPCL during the reporting period. Before going to site visit safety induction training was ensured to all students. The purpose of their visit is to early understanding of the power plant process and system and EHS practice.

They took a site tour after completeing the training . They visited each establishmet such as Control room, GT hall, ST hall, HRSG-1&2, Switchyard etc.



## 7.0 Emergency Preparedness

### 7.1 Mock Drill Practices

SMPCL has developed a well-defined emergency response procedure focusing on the many emergency issues such as fire/explosion, medical emergency, hazardous material release, earthquake response, chlorine release emergency response, severe weather, and spill response during transportation and transfer, response. All assembly points have been marked and sign boards have been provided at appropriate places on the site. A yearly emergency mock drill schedule was developed maintained. As per the Mock Drill Calendar, all drills were conducted successfully. A joint fire drill with a collaboration of local fire defence authority was conducted in 17<sup>th</sup> December 2017. All reports are attached for reference.

Please see [Annexure-10 Mock Drill Practices](#)

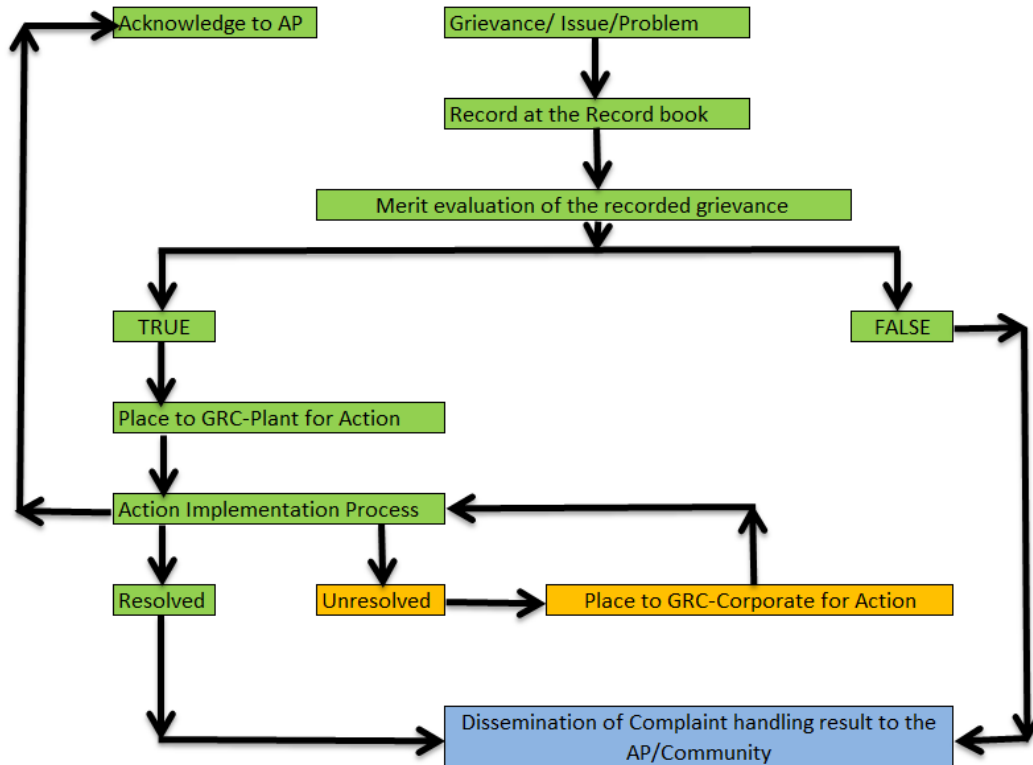


## 8.0 SMPCL Grievances Mechanism

A grievance redresses procedure has been developed for taking into account grievance raised by various stakeholder and local neighbours. A suggestion/ complaints box and a register book are maintained at the gatehouse, which is always accessible to the neighbouring people and the project stakeholders for putting down their comments, suggestions or complaints. Another one grievance register book has been kept in HR department for plant employees.



### Flow Chart of Grievance Redress Mechanism



**Grievance handling flow chart**

The objective of a grievance management procedure is to ensure that all comments and complaints from any project stakeholder, including local/regional authorities, SMPCL employees, SMPCL contractors' staff and other interested parties, are considered and addressed in an appropriate and timely manner. All grievances will be acknowledged and responded to within a reasonable timeframe.

GRC meeting was conducted on half yearly basis. Members of the committee were present during the meeting. Meeting report attached for reference.

Please See [Annexure-11 SMPCL Grievances Mechanism](#)

#### 8.1 Public Consultation & Disclosure

SMPCL is maintaining a very open and healthy relation with nearby community members. SMPCL conducted a public consultation among the Boilakir Char, Islampur, Dudghata, Kurbanpur, Gonganagor, Ashariar Char, and Pachani villagers. A leaflet was distributed with all environmental parameters monitoring record to community peoples. A leaflet also posted in several places within those villages.

Formal and informal meetings were conducted from time to time between the community neighbours and the members of the company's on different issues.

A suggestion/complaints book is maintained at the gatehouse, which is always accessible to the neighbouring people and the project stakeholders for writing down their comments, suggestions or complaints.

**Pictures of the public consultations**



Please see: [Annexure-12 Report of Public Consultations & Disclosure](#)

## 9.0 Community Development program

SMPCL has planned for CSR activities as part of the community development program.

### 9.1 CSR Activities

Construction work for Rain water passing drain, construction of primary school boundary works have been already started at Pachani & Dudghata villages. School bench has been distributed at kurbanpur primary school.

| SI | Description of Items / Services                               | Execution Process  |
|----|---|--|
| 1  | <b>Dudghata Primary School boundary wall construction</b>     | SMPCL will select Contractor and work specification. School committee has given work order, supervise and certify the work according to work scope. Upon certification by committee, SMPCL will pay to Contractor. Work has been started.    |
| 2  | <b>Drain making works at Pachani village around 1000 feet</b> | SMPCL will select Contractor and work specification. Union Parishad will give work order, supervise and certify the work according to work scope. Upon certification by Union Parishad, SMPCL will pay to Contractor. Work has been started. |
| 3  | <b>Bench for Kurbanpur Primary School</b>                     | School committee will give work order to supplier/ Shop. Upon receiving and forwarded by committee, SMPCL will pay to supplier/ shop.  |

#### Drain Construction at Pachani Village



#### School boundary construction work at dudghata Village



#### Bench Distribution at Kurbanpur Village



Summit Meghnaghat Power Company Limited  
Annual Public Environmental & Social  
Monitoring Report  
1<sup>st</sup> January – 31<sup>st</sup> December 2017



10.0 Annexure List

10.1 Annexure-1 ISO Certificates

CERTIFICATE | ΠΙΣΤΟΠΟΙΗΤΙΚΟ | CERTIFICAT | 証明書 | CERTIFICAT | شهادة

# CERTIFICATE



**Management System as per  
EN ISO 9001 : 2008**

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

**SUMMIT MEGHNAGHAT POWER COMPANY LIMITED  
Char Ramzan Sunallah, Meghnaghat, Sonargaon,  
NARAYANGANJ-1441, BANGLADESH**

Applies a Quality Management System in line with the above Standard for the following Scope

**GENERATE AND PROVIDE UNINTERRUPTED SUPPLY OF ELECTRICITY  
FROM 335/305 MW DUAL FUEL COMBINED CYCLE POWER PLANT.**

Certificate Registration No.: **1617100063897**



Rashid Mehr  
CEO  
Certification Body  
at TÜV AUSTRIA

Valid until: 2018-09-15\*

Lahore, 2017-01-09

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.  
\*The validity of the present certificate is renewed provided that the audit, according to the Standard EN ISO 9001:2015, has a positive result, according to the Regulation of TÜV Austria Hellas.

TÜV AUSTRIA HELLAS  
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GR-153 43 Athens, Greece  
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Headquarters in Athens bear the responsibility of the Certification decision



MS Certification  
No. of Certificate 236

CoPK416\_A7e



**TÜV AUSTRIA  
GROUP**

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CERTIFICATE | ZERTIFICAT | ΠΙΣΤΟΠΟΙΗΤΙΚΟ | CERTIFICA | شهادة | 证书 | CERTIFICAT

# CERTIFICATE



**Management System as per  
 EN ISO 14001 : 2004**

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

**SUMMIT MEGHNAGHAT POWER COMPANY LIMITED  
 Char Ramzan Sunallah, Meghnaghat, Sonargaon,  
 NARAYANGANJ-1441, BANGLADESH**

Applies an Environmental Management System in line with the above Standard for the following Scope

**GENERATE AND PROVIDE UNINTERRUPTED SUPPLY OF ELECTRICITY  
 FROM 335/305 MW DUAL FUEL COMBINED CYCLE POWER PLANT.**



Rashid Mehr  
 CEO  
 Certification Body  
 at TÜV AUSTRIA

Certificate Registration No.: **161776063897**

Valid until: 2018-09-15\*

Lahore, 2017-01-09

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

\*The validity of the present certificate is renewed provided that the audit, according to the Standard EN ISO 14001:2015, has a positive result, according to the Regulation of TUV Austria Hellas.

TÜV AUSTRIA HELLAS  
 429, Mesogeion Ave.  
 GR-153 43 Athens, Greece  
[www.tuvaustriahellas.gr](http://www.tuvaustriahellas.gr)



CdPRK405\_A7e

Headquarters in Athens bear the responsibility of the Certification decision



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# CERTIFICATE

**Management System as per  
OHSAS 18001 : 2007 / ELOT 1801 : 2008**

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

**SUMMIT MEGHNAGHAT POWER COMPANY LIMITED  
Char Ramzan Sunaullah, Meghnaghat, Sonargaon,  
NARAYANGANJ-1441, BANGLADESH**

Applies an Occupational Health & Safety Management System in line with the above Standards for the following Scope

**GENERATE AND PROVIDE UNINTERRUPTED SUPPLY OF ELECTRICITY  
FROM 335/305 MW DUAL FUEL COMBINED CYCLE POWER PLANT.**

EA Scope / Risk category: 25 / A

Certificate Registration No.: 161799063897

Valid until: 2020-01-08

  
Rashid Mehr  
CEO  
Certification Body  
at TÜV AUSTRIA

Lahore, 2017-01-09

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

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**Summit Meghnaghat Power Company Limited**  
**Annual Public Environmental & Social**  
**Monitoring Report**  
 1<sup>st</sup> January – 31<sup>st</sup> December 2017



**10.2 Annexure-2 IMS Objectives and Target**

|   |  |
|---|--|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b><br><b>TITLE: SMPCL IMS OBJECTIVES &amp; TARGETS</b> | Document No: SMPCL-IMS-F-002<br>Revision No.: 01<br>Effective Date: 10 Oct 16<br>Page 1 of 3 |
|---|--|

SUMMIT MEGHNAGHAT POWER COMPANY LIMITED (SMPCL) has fixed following Objectives and Targets for the year 2018:  
 a. SMPCL will comply with all legal and regulatory requirements of the country.

b. To improve the performance of SMPCL the following targets will be achieved:

| Sl. No. | Details  | Unit | Achieved (2017)   | Target (2018)                     | Measures to achieve the target  | Responsible Person/Dept. | Evidence Record |
|---------|--|------|---|-----------------------------------|---|--------------------------|-----------------|
| 1.      | Average Availability Factor                        | %    | 93.87%<br>(Target : >86.42%)                                  | > 86.42 %                         | 1. Adopt proper operational practice.<br>2. Carryout PM& PI regularly.<br>3. Make spares ready on site during emergency.<br><b>Note:</b> There is a possibility of Gas Commissioning of the Plant in this Calendar year.  | Operation & Maintenance  | SMPCL-IMS-F-038 |
| 2.      | Keeping Actual Heat Rate lower than PPA Heat Rate* | %    | 3.36%<br>Target >2 %  | Target >2%                        | 1. Carry out periodic water wash of gas turbines.<br>2. Ensure periodic maintenance.<br>3. Ensure no fuel spillage.<br>4. Minimize auxiliary consumption.   |                          |                 |
| 3.      | Total No. of Trips (GT-1)                          | Nos. | 2   | 5                                 | 1. Adopt proper operational practice.<br><b>Note:</b> There is a possibility of Gas Commissioning of the Plant in this Calendar year.   |                          |                 |
|         | Total No. of Trips (GT-2)                          | Nos. | 0   | 5                                 |   |                          |                 |
|         | Total No. of Trips (ST)                            | Nos. | 6   | 8                                 |   |                          |                 |
| 4.      | Reduce auxiliary power consumption                 | %    | Target < 3.198 %<br>Of Energy Delivered<br>Achieved = 3.232 % | < 3.5 % of Total Energy delivered | 1. Optimum operation of Band Screens.<br>2. Use RWP instead of CWP during Plant S/D condition.<br>3. Both GT 88BT healthy condition<br>4. Use minimum lighting during day time and ensure maximum utilization of sunlight.<br>5. Efficiently Control HVAC as per requirement.<br>6. Ensure efficient operation of all pumps, motors and other devices throughout the plant.<br>7. Ensure continuous monitoring. |                          |                 |

Verified by (MR):

Approved by (PM):

|   |  |
|---|--|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b><br><b>TITLE: SMPCL IMS OBJECTIVES &amp; TARGETS</b> | Document No: SMPCL-IMS-F-002<br>Revision No.: 01<br>Effective Date: 10 Oct 16<br>Page 2 of 3 |
|---|--|

c. To protect environment through conservation of natural resources by reducing the consumption; the following targets will be achieved:

| Sl. No. | Details                        | Unit | Achieved (2017)                           | Target (2018) | Measures to achieve the target  | Responsible Person/Dept. | Evidence Record |
|---------|--------------------------------|------|---|---------------|---|--------------------------|-----------------|
| 1.      | Water consumption              | M3   | Actual = 231594 m3<br>Target = <425,000m3 | < 425,000     | 1. Ensure no water spillage.<br>2. Ensure proper recycling of water.<br>3. Ensure continuous monitoring.                    | EHS                      | SMPCL-IMS-F-055 |
| 2.      | Hazardous Waste Generation     | KG   | 50 kg                                     | 90 kg         | 1. By reusing.<br>2. By recycling.  |                          |                 |
| 3.      | No. of Environmental Incidents | Nos. | 0   | 0             | 1. Provide environmental training to employees.<br>2. Ensure standards operating procedures.<br>3. Conduct Risk Assessment. |                          |                 |

d. SMPCL will restrict occurrence of lost time due to incident in the plant, occurrence of ill health in the plant, of lost time due to ill health in the plant, occurrence of the accidents in plant and the following targets will be achieved:

| Sl. No. | Details                                 | Unit | Achieved (2017) | Target (2018) | Measures to achieve the target   | Responsible Person/Dept. | Evidence Record |
|---------|---|------|-----------------|---------------|--|--------------------------|-----------------|
| 1.      | Occurrence of lost time due to accident | Nos. | 0               | 0             | 1. Ensure Awareness training on Occupational health and safety.<br>2. Ensure proper use of PPEs. | EHS                      | SMPCL-IMS-F-056 |
| 2.      | Occurrence of Fatality                  | Nos. | 0               | 0             | 1. Follow safe working practice.<br>2. Ensure hazard control measure.                            |                          |                 |
| 3.      | Near Miss                               | Nos. | 1               | 0             | 1. Follow safe working practice.<br>2. Ensure risk control measure.                              |                          |                 |

Verified by (MR):

Approved by (PM):





**Summit Meghnaghat Power Company Limited**  
**Annual Public Environmental & Social**  
**Monitoring Report**  
 1<sup>st</sup> January – 31<sup>st</sup> December 2017



|  |  |                              |
|--|--|------------------------------|
|  |  | Document No: SMPCL-IMS-F-002 |
| <b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b>      |  | Revision No.: 01             |
| <b>TITLE: SMPCL IMS OBJECTIVES &amp; TARGETS</b> |  | Effective Date: 10 Oct 16    |
|  |  | Page 3 of 3                  |

|    |           |      |   |   |   |  |  |
|----|-----------|------|---|---|---|--|--|
| 4. | First Aid | Nos. | 1 | 0 | 1. Ensure safe working practice.<br>2. Ensure proper use of PPEs.<br>3. Conduct training on occupational health and safety. |  |  |
|----|-----------|------|---|---|---|--|--|

e. SMPCL will maintain effective management system by providing training to its entire people on Quality, Environment, OH&S and Social views and the following targets will be achieved:

| Sl. No. | Details            | Unit  | Target (2018) | Measures to achieve the target  | Responsible Person/Dept. | Evidence Record |
|---------|--------------------|-------|---------------|---|--------------------------|-----------------|
| 1.      | Training Man Hours | Hours | 600 Man Hours | 1. Adaption of official policy (Comfortable schedule making).<br>2. Improve training quality. | EHS & HR                 | SMPCL-IP-007    |

f. These objectives of the system will be circulated throughout the organization and will be reviewed at least half yearly for its continued relevance and effectiveness. These objectives are monitored for its sustained effectiveness at management review meetings.

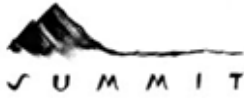
\* The target has been set out consider plant performance Loss. This also depends on plant factor which is controlled by BPDB.

Verified by (MR): \_\_\_\_\_ Approved by (PM): \_\_\_\_\_

**10.3 Annexure-3 Annual LTA statistic report 2017**

Yearly Rate:

| SUMMIT MEGHNAGHAT POWER COMPANY LIMITED   |   |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
|---|---|--|--|-----|------------------------|---|------------------|---|--------------------------------|---|---|---|---------------------------------|---|-----------------------|---|-----------------------|---|---|---|---|---|---|----|------------------------------------|----|--|----|--|
| Recordable Injury, Illness & LTA rate calculation (Yearly)  |   |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| COMPANY NAME: <u>SMPCL</u>  |   | CALENDAR YEAR: <u>2017</u>   |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| EMPLOYEE  |   | CONTRACTOR   |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| Total number of recordable injuries and illnesses<br><input type="text" value="0"/>   |   | Total number of recordable injuries and illnesses<br><input type="text" value="0"/>  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| divided by <input type="text" value="200,000"/> X 200,000 = <input type="text" value="0.00"/>   |   | divided by <input type="text" value="200,000"/> X 200,000 = <input type="text" value="0.00"/>  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| <input type="text" value="164702"/><br>Hours worked by all employees  |   | <input type="text" value="127805"/><br>Hours worked by all employees   |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| Total number of recordable injuries and illnesses with days away from work & Job transfer or restriction<br><input type="text" value="0"/>  |   | Total number of recordable injuries and illnesses with days away from work & Job transfer or restriction<br><input type="text" value="0"/> |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| divided by <input type="text" value="200,000"/> X 200,000 = <input type="text" value="0.00"/>   |   | divided by <input type="text" value="200,000"/> X 200,000 = <input type="text" value="0.00"/>  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| <input type="text" value="164702"/><br>Hours worked by all employees  |   | <input type="text" value="127805"/><br>Hours worked by all employees   |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| Note: Rate has been calculated as per OSHA 300 Log  |   |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| <table border="1"> <thead> <tr> <th>S/N</th> <th>Recordable injuries...</th> </tr> </thead> <tbody> <tr><td>1</td><td>Results in Death</td></tr> <tr><td>2</td><td>Results in days away from work</td></tr> <tr><td>3</td><td>Restricts their ability to work or requires transfer to a new job</td></tr> <tr><td>4</td><td>Medical treatment beyond 1stAid</td></tr> <tr><td>5</td><td>Loss of consciousness</td></tr> <tr><td>6</td><td>Loss of consciousness</td></tr> <tr><td>7</td><td>Significant injury or illness diagnosed by a healthcare professional and determined by that person to be work related</td></tr> <tr><td>8</td><td>Mental illness (if stated by a healthcare professional that it is work related)</td></tr> <tr><td>9</td><td>ALL injuries from needles or sharps that are contaminated by another's blood or other infectious material</td></tr> <tr><td>10</td><td>Work related cases of Tuberculosis</td></tr> <tr><td>11</td><td>Cases where a worker is removed from work under the provisions of an OSHA standard (ex: lead exposure)</td></tr> <tr><td>12</td><td>Some injuries incurred while an employee was traveling for work or working from home</td></tr> </tbody> </table> |   |  |  | S/N | Recordable injuries... | 1 | Results in Death | 2 | Results in days away from work | 3 | Restricts their ability to work or requires transfer to a new job | 4 | Medical treatment beyond 1stAid | 5 | Loss of consciousness | 6 | Loss of consciousness | 7 | Significant injury or illness diagnosed by a healthcare professional and determined by that person to be work related | 8 | Mental illness (if stated by a healthcare professional that it is work related) | 9 | ALL injuries from needles or sharps that are contaminated by another's blood or other infectious material | 10 | Work related cases of Tuberculosis | 11 | Cases where a worker is removed from work under the provisions of an OSHA standard (ex: lead exposure) | 12 | Some injuries incurred while an employee was traveling for work or working from home |
| S/N   | Recordable injuries...  |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 1   | Results in Death  |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 2   | Results in days away from work  |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 3   | Restricts their ability to work or requires transfer to a new job   |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 4   | Medical treatment beyond 1stAid   |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 5   | Loss of consciousness   |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 6   | Loss of consciousness   |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 7   | Significant injury or illness diagnosed by a healthcare professional and determined by that person to be work related |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 8   | Mental illness (if stated by a healthcare professional that it is work related)                                       |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 9   | ALL injuries from needles or sharps that are contaminated by another's blood or other infectious material             |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 10  | Work related cases of Tuberculosis  |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 11  | Cases where a worker is removed from work under the provisions of an OSHA standard (ex: lead exposure)                |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |
| 12  | Some injuries incurred while an employee was traveling for work or working from home                                  |  |  |     |                        |   |                  |   |                                |   |   |   |                                 |   |                       |   |                       |   |   |   |   |   |   |    |                                    |    |  |    |  |



Summit Meghnaghat Power Company Limited  
Annual Public Environmental & Social  
Monitoring Report  
1<sup>st</sup> January – 31<sup>st</sup> December 2017



Man Hour:

| Employee Yearly Manhour (2017) |               |         | Contractor Yearly Manhour (2017) |               |         | Total Yearly Manhours (2017) |               |         |
|--------------------------------|---------------|---------|----------------------------------|---------------|---------|------------------------------|---------------|---------|
| Month                          | Hour          | Remarks | Month                            | Hour          | Remarks | Month                        | Hour          | Remarks |
| January                        | 14322         |         | January                          | 10986         |         | January                      | 25308         |         |
| February                       | 13632         |         | February                         | 10480         |         | February                     | 24112         |         |
| March                          | 14304         |         | March                            | 11130         |         | March                        | 25434         |         |
| April                          | 14928         |         | April                            | 11258         |         | April                        | 26186         |         |
| May                            | 14480         |         | May                              | 10807         |         | May                          | 25287         |         |
| June                           | 13040         |         | June                             | 10272         |         | June                         | 23312         |         |
| July                           | 13812         |         | July                             | 9944          |         | July                         | 23756         |         |
| August                         | 13568         |         | August                           | 8536          |         | August                       | 22104         |         |
| September                      | 12824         |         | September                        | 13504         |         | September                    | 26328         |         |
| October                        | 14144         |         | October                          | 14968         |         | October                      | 29112         |         |
| November                       | 12720         |         | November                         | 8224          |         | November                     | 20944         |         |
| December                       | 12928         |         | December                         | 7696          |         | December                     | 20624         |         |
| <b>Total Hour :</b>            | <b>164702</b> |         | <b>Total Hour :</b>              | <b>127805</b> |         | <b>Total</b>                 | <b>292507</b> |         |

Incidents:

| Incident Statistics for the year 2017 |               |                |           |          |          |           |                    |                |
|---------------------------------------|---------------|----------------|-----------|----------|----------|-----------|--------------------|----------------|
| Month                                 | Employee Type | Working Hours  | Incidents |          |          | Days Lost | Incident Rate (LT) | Days-away Rate |
|                                       |               |                | Fatal     | Losttime | Nearmiss |           |                    |                |
| January                               | Employee      | 14322          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 10986          | 0         | 0        | 0        | 0         | 0                  | 0              |
| February                              | Employee      | 13632          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 10480          | 0         | 0        | 0        | 0         | 0                  | 0              |
| March                                 | Employee      | 14304          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 11130          | 0         | 0        | 0        | 0         | 0                  | 0              |
| April                                 | Employee      | 14928          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 11258          | 0         | 0        | 0        | 0         | 0                  | 0              |
| May                                   | Employee      | 14480          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 10807          | 0         | 0        | 0        | 0         | 0                  | 0              |
| June                                  | Employee      | 13040          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 10272          | 0         | 0        | 0        | 0         | 0                  | 0              |
| July                                  | Employee      | 13812          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 9944           | 0         | 0        | 0        | 0         | 0                  | 0              |
| August                                | Employee      | 13568          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 8536           | 0         | 0        | 0        | 0         | 0                  | 0              |
| September                             | Employee      | 12824          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 13504          | 0         | 0        | 0        | 0         | 0                  | 0              |
| October                               | Employee      | 14144          | 0         | 0        | 1        | 0         | 0                  | 0              |
|                                       | Contractor    | 14968          | 0         | 0        | 0        | 0         | 0                  | 0              |
| November                              | Employee      | 12720          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 8224           | 0         | 0        | 0        | 0         | 0                  | 0              |
| December                              | Employee      | 12928          | 0         | 0        | 0        | 0         | 0                  | 0              |
|                                       | Contractor    | 7696           | 0         | 0        | 0        | 0         | 0                  | 0              |
| <b>Total</b>                          | Employee      | <b>164702</b>  | 0         | 0        | 1        | 0         | 0                  | 0              |
|                                       | Contractor    | <b>127805</b>  | 0         | 0        | 0        | 0         | 0                  | 0              |
| <b>SMPCL</b>                          |               | <b>292,507</b> | -         | -        | <b>1</b> | -         | -                  | -              |

**10.4 Annexure-4 EHS Training Report 2017**

January'2017

|   |  |                              |
|---|--|------------------------------|
| <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. |  | Document No: SMPCL-EHS-F-035 |
|   |  | Revision No.: 00             |
| TITLE: EHS TRAINING REPORT  |  | Effective Date: 10 Jan 16    |
|   |  | Page 1 of 1                  |

**EHS Training Topic:** EHS Policy, Practice & Grievance Redressing Procedure

**Technical Training Topic:** Demi water train and MBP Regeneration & Water treatment & waste water treatment process

**Training Date:** 30.01.2016


**Training Time:** 9:30 am to 12:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Description of EHS policy, Practice and Procedures. Emergency Response Procedure designated Assembly Points location. PPE, Confined Space, Fire Hazard, Waste Management, Smoking Prohibition area, Grievance management procedure & addressing practice.

**Pictures of the Training**



























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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-A&P-F-076 |
|  | Revision No.: 00             |
| Effective Date: 14 Jan 16  |                              |
| Page 1 of 1  |                              |

TITLE: ATTENDANCE SHEET

ATTENDANCE SHEET

Monthly EHS & Technical Training

Date: 30/01/17

| S/N | Name of Attendees        | Department | Signature   |
|-----|--------------------------|------------|---|
| 1   | Suman Sarkar             | Operation  |    |
| 2   | Md. Raihan Hossain       | OPN        |    |
| 3   | Md. Moniruzzaman         | OPN        |    |
| 4   | Koushik Ahmed            | OPN        |    |
| 5   | MO. Asif ul Alam         | ASP        |    |
| 6   | Ashik Ahmed              | MMD        |    |
| 7   | Zahirul Islam            | MMD        |   |
| 8   | Md. Monowar Hossain      | EMD        |  |
| 9   | Md Iqbal Hossain         | MMD        |  |
| 10  | Kazi Md. Shamim Hossain  | MMD        |  |
| 11  | md. Saiful Islam         | MMD        |  |
| 12  | Muhammad Saklawful Bari  | MMD        |  |
| 13  | Sujan Deb Nath           | MMD        |  |
| 14  | Alom.                    | M.M.D.     |  |
| 15  | Kamrul                   | Operation  |  |
| 16  | MO. Salim                | MMD        |  |
| 17  | KH. MONIRUZZAMAN         | MMD        |  |
| 18  | ehoveal KHANDOKER        | MMD        |  |
| 19  | Md. Mizam Uddin          | M.M.D.     |  |
| 20  | Md. Mubshirul-Ul-Salehin | EMD        |  |
| 21  | KM Shihel                | ASP        |  |
| 22  | Gouram K. Nath           | ASP        |  |
| 23  | Ashis Kumar Das          | ASP        |  |
| 24  | SK. NUR ISLAM            | ISC        |  |



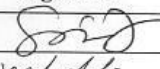


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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b><br><b>TITLE: TRAINING ATTENDANCE RECORD</b> | Document No: SMPCL-EHS-F-001 |
|  | Revision No.: 00             |
|  | Effective Date: 10 Jan 16    |
|  | Page 1 of 1                  |



### TRAINING ATTENDANCE RECORD

Course Title:  
Ref No:

Date: 30/01/2017

| S/N | Name of Attendees | Designation    | Signature   |
|-----|-------------------|----------------|---|
| 26  | মাহবুব হান্নান    | ৳টিম গার্ডেনার |  |
| 27  | মাহবুব            | ASST: COOK     | মাহবুব,   |
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February'2017

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| <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. |  | Document No: SMPCL-EHS-F-035 |
|   |  | Revision No.: 00             |
| TITLE: EHS TRAINING REPORT  |  | Effective Date: 10 Jan 16    |
|   |  | Page 1 of 1                  |

**EHS Training Topic:** 1) All work related PPE requirement. 2) SCBA operating practice

**Technical Training Topic:** Operation and Maintenance of UPS system

**Training Date:** 26.02.2017

**Training Time:** 9:30 am to 12:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Definition of work permit, types of work permit, work permit procedure, precautionary measure for hot work, confined space work, excavation work, work at height, SFT, importance of work permit, standard operation procedure of SCBA. Introduce with all parts of SCBA. Practical session, when to be used SCBA etc.

**Pictures of the Training**

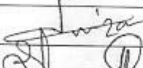

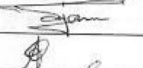
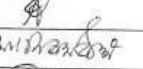
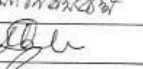
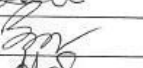

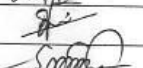
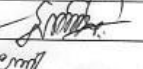
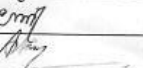

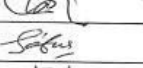
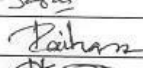
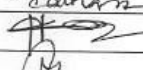



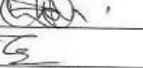


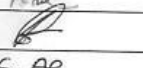
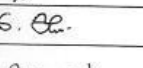
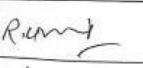
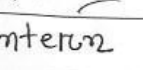
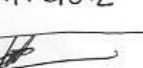






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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-A&P-F-076 |
|  | Revision No.: 00             |
| <b>TITLE: ATTENDANCE SHEET</b>   | Effective Date: 14 Jan 16    |
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ATTENDANCE SHEET

Monthly EHS & Technical Training (Feb - 17)

Date: 26/02/17

| S/N | Name of Attendees         | Department        | Signature   |
|-----|---------------------------|-------------------|---|
| 01  | MIZANUR RAMAN             | MMD               |    |
| 02  | Kazi Md. Shamim Hossain   | Maint, Mechanical |    |
| 03  | Sujan Debnath             | MMD               |    |
| 04  | Aslem.                    | MMD               |    |
| 05  | Md. Nizom Uddin           | M.M.D             |    |
| 06  | Md. Mushfiqur-Us-Salokeen | EMD               |    |
| 07  | Md. Moniruzzaman          | I&C               |    |
| 08  | Md. Monowar Hossain       | EMD               |   |
| 09  | M. MONIRUZZAMAN           | MMD               |   |
| 10  | Md. Salim                 | HMD               |  |
| 11  | CHAUHAN.                  | MMD               |  |
| 12  | Ashis Kumar Das           | ASP               |  |
| 13  | Goutam Kr. Nayak          | ASP               |  |
| 14  | Saiful Islam              | mmd               |  |
| 15  | Md. Raihan Hossain        | OPD               |  |
| 16  | Moklesur Rahman           | I&C               |  |
| 17  | Mir Mahmudul Hasan        | operation         |  |
| 18  | K M Shakel                | ASP               |  |
| 19  | Md Labad Hossain          | MMD               |  |
| 20  | Suprohat Kr. Ghosh        | I&C               |  |
| 21  | Zahirul Islam             | MMD               |  |
| 22  | Mostofa Meraj Fasha       | I&C               |  |
| 23  | ASHIK AHMED               | MMD               |  |
| 24  | Foyzul Ahmmed             | ASP               |  |
| 25  | Muhammad Saklawati Bari   | MMD               |  |
| 26  | Md. Rezaul Karim          | ASP               |  |
| 27  | Pallab Sarkar             | MMD               |  |
| 28  | GM Saiful Islam           | ASP               |  |
| 29  | Md Anif ul Alam           | ASP               |  |





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|   |  | Document No: SMPCL-A&P-F-076 |
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| TITLE: ATTENDANCE SHEET                     |  | Effective Date: 14 Jan 16    |
|   |  | Page 1 of 1                  |

ATTENDANCE SHEET

Date: 26/02/17

| S/N | Name of Attendees  | Department | Signature |
|-----|--------------------|------------|-----------|
|     | Suman Sarkar       | OP         |           |
|     | Suprabhat K. Ghosh | I & C      |           |
|     | Koushik Ghosh      | OP         |           |
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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-EHS-F-035 |
|   | Revision No.: 00             |
|   | Effective Date: 10 Jan 16    |
| <b>TITLE: EHS TRAINING REPORT</b>   | Page 1 of 1                  |

**EHS Training Topic:** Work Permit (Work permit, Hot work permit, confined work permit, Excavation permit, work at height Etc)

**Technical Training Topic:** Transformer Basics and its Protection

**Training Date:** 28.03.2017



**Training Time:** 9:30 am to 12:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Definition of work permit, types of work permit, work permit procedure, precautionary measure for hot work, confined space work, excavation work, work at height, SFT, importance of work permit. Standard operation procedure of SCBA. Introduce with all parts of SCBA. Practical session, when to be used SCBA etc.

**Pictures of the Training**





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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-A&P-F-076 |
|  | Revision No.: 00             |
|  | Effective Date: 14 Jan 16    |
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| <b>TITLE: ATTENDANCE SHEET</b>   |                              |

ATTENDANCE SHEET

Monthly EHS & Technical Trainings (March-17)

Date: 28/08/17

| S/N | Name of Attendees              | Department | Signature   |
|-----|--------------------------------|------------|-------------|
| 01  | Muhammad Saktawatol Bari       | MMD        | S. Bari     |
| 02  | Md. Salim                      | MMD        | Salim       |
| 03  | Md. Mushfiqur-Uz-Saleem        | EMD        | Mushfiqur   |
| 04  | Md. MIZANUR Rhaman             | MMD        | Mizanur     |
| 05  | Kazi Md. Sharim Hossain - MMD. | MMD        | Kazi Sharim |
| 06  | Md. Ismail Hossain             | EMD        | Ismail      |
| 07  | Md. Saikat Ali Sikder          | EMD        | Saikat      |
| 08  | Md. Nigam Uddin                | M.M.D      | Nigam       |
| 09  | Pallab Sarkar                  | Trainee    | Pallab      |
| 10  | Md. Jabal Hossain              | MMD        | Jabal       |
| 11  | Md. Saiful Islam               | MMD        | Saiful      |
| 12  | CHAYCHAL                       | MMD        | Chaychal    |
| 13  | Sujan Debnath                  | MMD        | Sujan       |
| 14  | Md. Aslam                      | MMD        | Aslam       |
| 15  | Rahat Kochi Dipu               | A&P        | Rahat       |
| 16  | Md. Asif ul Alam               | A&P        | Asif        |
| 17  | Gouram Kr. Nath                | SCP        | Gouram      |
| 18  | Ashin. Das                     | SCP        | Ashin       |
| 19  | Md. Moktar Hossain             | EHS        | Moktar      |
| 20  | G M Sahel                      | A&P        | G M Sahel   |
| 21  | Ashuk Ahmed                    | MMD        | Ashuk       |
| 22  | Kausik Ahmed                   | OPN        | Kausik      |
| 23  | Md. Monirul Karim              | ISL        | Monirul     |
| 24  | Md. Monowar Hossain            | EMD        | Monowar     |
| 25  | Mastofa Muroz Pasha.           | ISE        | Mastofa     |

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| <p>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</p> <p>TITLE: ATTENDANCE SHEET</p>  |   |

ATTENDANCE SHEET

*Monthly EHS & Technical Training (March-17)*

Date: *28/03/17*

| S/N | Name of Attendees         | Department     | Signature          |
|-----|---------------------------|----------------|--------------------|
| 26  | <i>Ashis Kumar Das</i>    | <i>A&amp;P</i> | <i>[Signature]</i> |
| 27  | <i>Md. Rezaul Karim</i>   | <i>A&amp;P</i> | <i>[Signature]</i> |
| 28  | <i>Md. Raihan Hospane</i> | <i>OPS</i>     | <i>[Signature]</i> |
| 29  | <i>Fayzul Ahommed</i>     | <i>A&amp;P</i> | <i>[Signature]</i> |
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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-EHS-F-035 |
|   | Revision No.: 00             |
|   | Effective Date: 10 Jan 16    |
| <b>TITLE: EHS TRAINING REPORT</b>   | Page 1 of 1                  |

**EHS Training Topic:** Fire Fighting, prevention & Control

**Technical Training Topic:** Turbine supervisory instrumentation and over speed protection system in ST

**Training Date:** 20.04.2017



**Training Time:** 9:30 am to 12:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Fire Hazard. Example of Fire Hazard, Fire tetrahedron, Types of fire and extinguisher. Use of fire extinguishers, Deluge system. Fire sprinkler system. Fire safety plan, emergency response plan etc.

**Pictures of the Training**

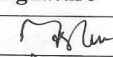
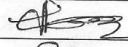

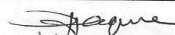

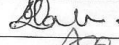




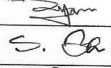

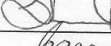

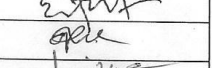
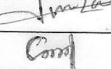
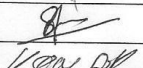







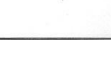




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| <b>TITLE: ATTENDANCE SHEET</b>   |                              |

ATTENDANCE SHEET

Monthly EHS&S Technical Training (April-17)

Date: 20/04/17

| S/N | Name of Attendees         | Department | Signature   |
|-----|---------------------------|------------|---|
| 1.  | SK. NUR ISLAM             | I&C        |    |
| 2.  | MOKHLADUZZ Rahman         | I&C        |    |
| 3.  | Md. Sawkat Ali Sikder     | EMD        |    |
| 4.  | AHMEDUL HAQUE             | EMD        |    |
| 5.  | Md. Monowar Hossain       | EMD        |    |
| 6.  | Md. Mushfiq - Us - Sakhan | EMD        |    |
| 7.  | Suman Sarkar              | OPN        |    |
| 8.  | Foyzul Ahmmed             | A&P        |    |
| 9.  | ASHAMI                    | Mi.M.D.    |   |
| 10. | Zahin                     | MMD        |  |
| 11. | K M Shikhet               | A&P        |  |
| 12. | Sujan Debnath             | MMD        |  |
| 13. | Muhammad Sakawatul Bari   | MMD        |  |
| 14. | MD- Asif ul Alam          | A&P        |  |
| 15. | Kazi Md. Shamim Hossain   | MMD        |  |
| 16. | Mastofa Kherij Pasha      | I&C        |  |
| 17. | Sai-ful Islam             | OPN        |  |
| 18. | Mahibuz Rahman APU        | EMD        |  |
| 19. | MD. MIZANUR RAHAMAN       | MMD        |  |
| 20. | Chancaul Khandoker        | MMD        |  |
| 21. | KHO. MONIRUZZAMAN         | MMD        |  |
| 22. | Koushik Ahmed             | OPN        |  |
| 23. | MD. MONIRUZZAMAN          | I&C        |  |
| 24. | Ashis Kumar Das           | A&P        |  |
| 25. | Khairul                   | OPN        |  |

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|  <p>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</p> |  | Document No: SMPCL-A&P-F-076 |
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TITLE: ATTENDANCE SHEET

ATTENDANCE SHEET

Monthly EHS & Technical Training (April-17)

Date: 20/04/17

| S/N | Name of Attendees  | Department | Signature   |
|-----|--------------------|------------|-------------|
| 1   | Md. Moktar Hossain | EHS        | [Signature] |
| 2.  | md. Saiful Islam   | MMD        | [Signature] |
| 03  | Md. Nazam Uddin    | M.M.D      | [Signature] |
| 04  | Ashur Ahmed        | MMD        | [Signature] |
| 05  | Md. Mominur Rahman | Operation  | [Signature] |
| 06  | Goutam K. Nishy    | A & P.     | [Signature] |
| 07  | Md. Jabal Hossain  | MMD        | [Signature] |
| 08  | Md. Rezaul Karim   | ABP        | [Signature] |
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| TITLE: EHS TRAINING REPORT   | Page 1 of 1                  |

**EHS Training Topic:** Fall Prevention & Protection & Scaffolding

**Technical Training Topic:** Drum level measurement and control system in SMPCL

**Training Date:** 23.05.2017

**Training Time:** 9:30 am to 12:30 pm



**Training Venue:** Conference Room

**Covers in Areas:** Introduction of fall hazard, work at height procedure, type of fall protection system, PFAS, definition of scaffolding, types of scaffolding, different parts of scaffolding, crane safety, forklift safety rules, safe practice for lifting equipments. Describe signaling system for crane operation.

#### Pictures of the Training






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ATTENDANCE SHEET

Monthly EHS & Technical Training (May - 17)

Date: 23/05/17

| S/N | Name of Attendees       | Department | Signature   |
|-----|-------------------------|------------|-------------|
| 01  | Md. Labal Hossain       | MMD        | [Signature] |
| 02  | Md. Moniruzzaman        | ISC        | [Signature] |
| 03  | Md. Asif ul Alam        | ASP        | [Signature] |
| 04  | Md. Mondowaz Hossain    | EMD        | [Signature] |
| 05  | Md. Mushfiqur Us-Saleh  | EMD        | [Signature] |
| 06  | S.K. Nur Islam          | ISC        | [Signature] |
| 07  | Muhammad Sakawatul Bari | MMD        | [Signature] |
| 08  | Zahirul Islam           | MMD        | [Signature] |
| 09  | Md. Saiful Islam        | MMD        | [Signature] |
| 10  | Sapan Debnath           | MMD        | [Signature] |
| 11  | Mokhlakur Rahman        | ISC        | [Signature] |
| 12  | Fahmidur Rahman         | ISC        | [Signature] |
| 13  | Md. Ismail Hossain      | EMD        | [Signature] |
| 14  | Md. Sawkat Ali Sikder   | EMD        | [Signature] |
| 15  | Suprobat Ks. Ghosh      | ISC        | [Signature] |
| 16  | Mostafa Meraj Pasha     | ISC        | [Signature] |
| 17  | Md. Sharif Hossain      | MMD        | [Signature] |
| 18  | Suman Sarkar            | OPN        | [Signature] |
| 19  | MD. MIZANUR RAHMAN      | MMD        | [Signature] |
| 20  | MR. MONIRUZZAMAN        | MMD        | [Signature] |
| 21  | Ruhul Amin              | EMD        | [Signature] |
| 22  | Ahmedul Hoque           | EMD        | [Signature] |
| 23  | Md. Raishan Hossain     | OPN        | [Signature] |
| 24  | CHAKRABARTY             | MMD        | [Signature] |
| 25  | Md. Aslem               | M.M.D.     | [Signature] |
| 26  | ASHIK AHMED             | MMD        | [Signature] |
| 27  | Gopabandhu Ks. Naha     | ASP        | [Signature] |
| 28  | MD. SALIM               | MMD        | [Signature] |
| 29  | Ashis Kumar Das         | ASP        | [Signature] |
| 30  | Md. Nigamuddin          | M.M.D.     | [Signature] |
| 31  | Md. Rezaul Karim        | ASP        | [Signature] |

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| <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. |  | Document No: SMPCL-EHS-F-035 |
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**EHS Training Topic:** Compressed Gas Cylinder Safety

**Technical Training Topic:** Generator Circuit Breaker operation and control

**Training Date:** 18.06.2017



**Training Time:** 2:30 pm to 4:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Different forms of gases, Types of gases, introduce of Cylinder parts, Safety instruction for safe use of compressed gas cylinder, Safe handling practice, safely storage of compressed gas cylinder, Extra precaution for flammable gas cylinder and poisonous gas cylinder. Some unsafe condition about compressed gas cylinder storage.

**Pictures of the Training**




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ATTENDANCE SHEET

Monthly EHS & Technical Training (June -17)

Date: 18/06/17

| S/N | Name of Attendees      | Department | Signature   |
|-----|------------------------|------------|-------------|
| 01  | Ahmedul Haque          | EMD        | [Signature] |
| 02  | Muraj Pasha.           | ISC        | [Signature] |
| 03  | Saiful Islam           | MMD        | [Signature] |
| 04  | MIRANUR RAHMAN         | MMD        | [Signature] |
| 05  | Zahin                  | MMD        | [Signature] |
| 06  | Md. Jhanim Hossain     | MMD        | [Signature] |
| 07  | Suprabhat Kr. Ghosh    | ISC        | [Signature] |
| 08  | Md. Monowar Hossain    | EMD        | [Signature] |
| 09  | Md. Ismail Hossain     | EMD        | [Signature] |
| 10  | Md. Saikat Ali Sikder  | EMD        | [Signature] |
| 11  | Fayaz Ahmed            | ASP        | [Signature] |
| 12  | Muhammad Sakhatul Bari | MMD        | [Signature] |
| 13  | Mokhlasur Rahman       | ISC        | [Signature] |
| 14  | SU. NUR ISLAM          | ISC        | [Signature] |
| 15  | Md. Moniruzzaman       | ISC        | [Signature] |
| 16  | Md. Rezaul Karim       | ASP        | [Signature] |
| 17  | Md. Raheem Hossain     | ISC        | [Signature] |
| 18  | Md. Moktar Hossain     | EHS        | [Signature] |
| 19  | ASHIK AHMED            | MMD        | [Signature] |
| 20  | Nawroze Alam           | EHS        | [Signature] |
| 21  | Ashis Kumar Das        | ASP        | [Signature] |
| 22  | RAPIUL HOSSAIN         | OPD        | [Signature] |
| 23  | Gm Saiful Islam        | ASP        | [Signature] |
| 24  | Md Iqbal Hossain       | MMD        | [Signature] |
| 25  | MO. ASIF AL ALAM       | OPE        | [Signature] |

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**EHS Training Topic:** 1) Chemical Handling & Waste Management 2) Basic IMS Training

**Technical Training Topic:** Maintenance skill on Rotating Equipment

**Training Date:** 23.07.2017

**Training Time:** 9:30 am to 1:00 pm

**Training Venue:** Conference Room

**Covers in Areas:** Introduction chemicals, types of chemicals, SMPCL chemical handling procedure, Precaution for hazardous chemicals, chemical spill response procedure, good disposal method for hardous chemicals, types of waste, SMPCL waste management procedure, disposal procedure for different waste etc

**Pictures of the Training**




























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ATTENDANCE SHEET

Monthly EHS& Technical Training (July -17)

Date: 28/07/17

| S/N | Name of Attendees         | Department | Signature   |
|-----|---------------------------|------------|---|
| 01  | Md. Mondwar Hossain       | EMD        |    |
| 02  | Mokhlqsur Rahman          | ISE        |    |
| 03  | Suprobhat Kumar Ghosh     | ISE        |    |
| 04  | Md. Moniruzzaman          | ISE        |    |
| 05  | G.M. Saiful Islam         | ASP        |    |
| 06  | Md. Labal Hossain         | MMD        |    |
| 07  | Md. Mushfiqur-Us-Salehin  | EMD        |   |
| 08  | ABUJAK AHMED              | MMD        |  |
| 09  | SK. NUR ISLAM             | ISE        |  |
| 10  | Fajrul Ahmmed             | ASP        |  |
| 11  | Nawrozul Ahmmed           | EMD        |  |
| 12  | Md. Akter                 | W.P.       |  |
| 13  | Muhammad Saklawatul Karim | MMD        |  |
| 14  | Md. MIRANUR RAHMAN        | MMD        |  |
| 15  | Sujan Debnath             | MMD        |  |
| 16  | Zahin                     | MMD        |  |
| 17  | Kazi Md. Sharim Hossain   | MMD        |  |
| 18  | K.M. Shohel               | ASP        |  |
| 19  | Md. Saiful Islam          | MMD        |  |
| 20  | Suman Sarkar              | OPN        |  |
| 21  | KH. MONIRUZZAMAN          | MMD        |  |
| 22  | Murujjaman                | Internee   |  |
| 23  | S.M. Fahimuddin Rahman    | ISE        |  |
| 24  | Md. Sawkat Ali            | EMD        |  |
| 25  | Md. Ismail Hossain        | EMD        |  |

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ATTENDANCE SHEET

Monthly EHS & Technical Training (July-17)

Date: 23/07/17

| S/N | Name of Attendees    | Department | Signature    |
|-----|----------------------|------------|--------------|
| 26  | Md. Rezaul Karim     | A&P        | Rimy         |
| 27  | Md. Nizam Uddin      | M. M. D    | Amir Prodhan |
| 28  | Ahmedul Haque        | EMD        | Amir         |
| 29  | MD. Sakiem           | M. M. D    | Sumit        |
| 30  | MD. Chanchol         | M. M. D    | Sumit        |
| 31  | Opatum Pr. Nath      | A&P        | Opatum       |
| 32  | Ashis Kumar Das      | A&P        | Ashis        |
| 33  | Mohammad Razuan Moni | OPD        | Moni         |
| 34  | MD. Asif ul Alam     | IT - OPD   | Asif         |
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**EHS Training Topic:** Emergency Response plan

**Technical Training Topic:** Different types of control loop's working principle

**Training Date:** 17.08.2017

**Training Time:** 9:30 am to 12:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Definition of emergency. Briefly describe SMPCL emergency response procedure. Assembly points numbers and locations. Fire emergency procedure, Chlorine emergency procedure, Bomb threat procedure, Oil spill and response procedure, Structural collapse emergency, high voltage emergency, Community evacuation procedure, Emergency response team members, fire fighting & rescue equipments, emergency communication method.

**Pictures of the Training**

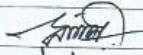
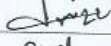

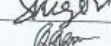























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ATTENDANCE SHEET

Monthly EHS & Technical Trainings (August-17)

Date: 17/08/17

| S/N | Name of Attendees         | Department        | Signature   |
|-----|---------------------------|-------------------|---|
| 1   | MD: SAIP M                | NMB               |    |
| 2   | MD: MIZAN                 | MMD               |    |
| 3   | MD EHMCHOTI               | MMD               |    |
| 4   | MD. Nuruzzaman            | Internet          |    |
| 5   | Mostafa Meraj Hasla       | ISC               |    |
| 6   | Saiful Islam              | MMD               |    |
| 7   | Suprobhat kr. Chhosh      | ISC               |    |
| 8   | Muhammad Sakhatul Bari    | MMD               |   |
| 9   | MD. Shomin Hossain        | Maint, Mech.      |  |
| 10  | MD. ASIF ZAMAN            | Executive Trainee |  |
| 11  | Rashed Muhammad Yaqub     | ET                |  |
| 12  | Toner Rahman              | Trainer           |  |
| 13  | Zahin                     | MMD               |  |
| 14  | Sujan debnath             | MMD               |  |
| 15  | Mokhlasur Rahman          | ISC               |  |
| 16  | SK. NUR ISLAM             | ISC               |  |
| 17  | KM Shohel                 | ASP               |  |
| 18  | Md Lobal Hossain          | MMD               |  |
| 19  | Ashik AHMED               | MMD               |  |
| 20  | KH. MONIR                 | MMD               |  |
| 21  | S.M. Fahmidur Rahman      | ISC Trainee       |  |
| 22  | Mushfiqueer Rahman        | OPN               |  |
| 23  | Goatam Kr. Nath           | ASP               |  |
| 24  | Md. Mushfiqueer-Ul-Sabhan | FMD               |  |
| 25  | MD. Asif ul Alam          | OPD               |  |








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| TITLE: ATTENDANCE SHEET   |  |                              |

ATTENDANCE SHEET

Monthly EHS & Technical Training (August-17)

Date: 17/08/17

| S/N | Name of Attendees     | Department | Signature   |
|-----|-----------------------|------------|---|
| 26  | Fayzul Ahmmed         | A&P        |  |
| 27  | Md. Rezaul Karim      | A&P        |  |
| 28  | Md. Ismail Hossain    | EMO        |  |
| 29  | Md. Sawkat Ali Sikder | EMD        |  |
| 30  | Khatrul Alam          | OPD        |  |
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| <br><br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. | Document No: SMPCL-EHS-F-035 |
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|  | Page 1 of 1                  |

**EHS Training Topic:** Chemical & Oil Spill Control

**Technical Training Topic:** Blackout Management

**Training Date:** 24.09.17

**Training Time:** 9:30 am to 12:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Definition of hazardous chemicals and flammable materials, Types of chemicals and flammable using in SMPCL, Safety handling practice for chemicals and flammable materials. Safe storage and disposal practice. Meaning of MSDS, Emergency contact information. PPEs for chemicals and flammable materials. Safety precaution for different types of chemicals and flammable materials.

**Pictures of the Training**

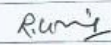


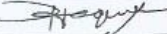







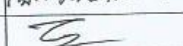








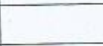


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|   |   | Page 1 of 1                  |
| TITLE: ATTENDANCE SHEET   |   |                              |

ATTENDANCE SHEET

Monthly EHS & Technical Training for the month of Sept, 17

Date: 24/09/17

| S/N | Name of Attendees        | Department | Signature   |
|-----|--------------------------|------------|---|
| 1   | Md. Rezaul Karim         | A&P        |    |
| 2   | Md. Saiful Islam         | MMD        |    |
| 3   | Md. Mubshiqur-Ul-Salehan | EMD        |    |
| 4   | Ahmed                    | EMD        |    |
| 5   | Md. Mokhtar Hossain      | EHS        |    |
| 6   | Faisal Ahmed             | A&P        |    |
| 7   | Biswojit Biswas          | OPN        |    |
| 8   | Asik AHMED               | MMD        |    |
| 9   | SK. NUR ISLAM            | I&C        |    |
| 10  | Suprobhat Kumar Chhosh   | I & C      |   |
| 11  | Suman Sarkar             | OPN        |  |
| 12  | Md. Nazam Uddin          | M. M. D    |  |
| 13  | Zahirul Islam            | MMD        |  |
| 14  | Md. Morimurran           | IR         |  |
| 15  | Kamrul Hasan             | OP.        |  |
| 16  | Rashed Muhammad rashed   | Trainee    |  |
| 17  | Puru Rahman              | Trainee    |  |
| 18  | MD- ASIF ZAMAN           | Trainee    |  |
| 19  | S.M Fahmidur Rouman      | I&C        |  |
| 20  | Sujan debnath            | MMD        |  |
| 21  | Nawroze Ahmed            | EHS        |  |
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## Bangladesh Red Crescent Society

### Training Department

#### TRAINING COORDINATOR'S REPORT

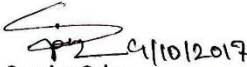
1. **Title of the Training:** Refresher Training on First Aid Date: 04/10/2017
2. **Organizer/Host:** Summit Meghnaghat Power Company Limited
3. **Course Objective:** Participants are able to gained update information and refresh their knowledge and skill from the training and also able to provide assistant to other causality.
4. **Venue:** Summit Meghnaghat Power Plant Premises, Baranagar, Narayanganj.
5. **Duration:** 19 & 20 Sep. 2017 (2 courses)
6. **Name of the Facilitators:** Ms. Supriya Saha and Ms. Sharmin Akter Papry.
7. **No. of participants:**  
By gender: **Male:** 32 + 33=65      **Female:** 0      **Total:** 65

**Overall Impression:** The training environment of the organizations was very excellent, friendly and was also Academic atmosphere for the learning point of view. Training room space was not enough for practical demonstrations because there is lots of practical sessions which very important for participants. We are very much happy to receive good and cordial entertainment during whole training.

**Participant:** Participants was very much active and enthusiastic regarding training. We hope nowadays all participants are very much confident and they will also be able to give assistant to the causalities' at any emergency situation as a first aider. But they should practice time to time.

**Conclusion:** I would like to express my gratitude to you and your organization for supporting us with this training programme. As you know BDRCS is one of the Humanitarian organizations for elevating suffering the distressed people. So far my understanding Summit Power Company Ltd. also doing people welfare through their service to the different vulnerable community and also build up the capacity of different classes and groups by their supports.

Submitted with thanks:

  
Supriya Saha  
Course Coordinator  
Training Department  
Bangladesh Red Crescent Society

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|---|------------------------------|
|  <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. | Document No: SMPCL-EHS-F-035 |
|   | Revision No.: 00             |
| <b>TITLE: EHS TRAINING REPORT</b>   | Effective Date: 10 Jan 16    |
|   | Page 1 of 1                  |

**EHS Training Topic:** Hazard Communication & Flammable Materials Handling

**Technical Training Topic:** Operation and working principle of MOV, pneumatic control and hydraulic control valve

**Training Date:** 24.10.17

**Training Time:** 9:00 am to 12:00 pm

**Training Venue:** Conference Room

**Covers in Areas:** Definition of hazardous materials, GHS, list of SMPCL hazardous materials, classes of hazardous materials, safe handling and disposal practice, PPEs for hazardous materials, emergency response during hazardous materials release. Definition of waste, disposal procedure. Plant waste management system etc.

**Pictures of the Training**





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|  |  | Revision No.: 00             |
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ATTENDANCE SHEET

Monthly EHS & Technical training for the month of Oct-17

Date: 24/10/17

| S/N | Name of Attendees       | Department | Signature   |
|-----|-------------------------|------------|-------------|
| 1   | Md. Saiful Islam        | MMD        | [Signature] |
| 2   | Md. Mushfiqur-Ul-Salahu | EMD        | [Signature] |
| 3   | Ahmed                   | EMD        | [Signature] |
| 4   | Md. Moktar Hossain      | EHS.       | [Signature] |
| 5   | Fayyaz Ahmed            | ASP        | [Signature] |
| 6   | S.M. Fohmidun Rahman    | ISE        | [Signature] |
| 7   | Biswajit Biswas         | OPN        | [Signature] |
| 8   | Ashraf Ahmed            | MMD        | [Signature] |
| 9   | SK. NUR ISLAM           | ISE        | [Signature] |
| 10  | Suprabhat Kr. Ghosh     | ISE        | [Signature] |
| 11  | Suman Sarkar            | OPN        | [Signature] |
| 12  | Md. Nizam Uddin         | M.M.D      | [Signature] |
| 13  | Zahirul Islam           | MMD        | [Signature] |
| 14  | Md. Moniruzzaman        | ISE        | [Signature] |
| 15  | Kamrul Hasan            | OPN        | [Signature] |
| 16  | Rashed Muhammad Yaqub   | Trainee    | [Signature] |
| 17  | Toru Rahman             | Trainee    | [Signature] |
| 18  | MD. ASIF ZAMAN          | Trainee    | [Signature] |
| 19  | Md. Rezaul Karim        | ASP        | [Signature] |
| 20  | Sujan debnath           | MMD        | [Signature] |
| 21  | Nawroz Alam             | EHS        | [Signature] |
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|  <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. | Document No: SMPCL-EHS-F-035 |
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| TITLE: EHS TRAINING REPORT  | Effective Date: 10 Jan 16    |
|   | Page 1 of 1                  |

**EHS Training Topic:** Basic Electrical Safety Training

**Technical Training Topic:** 230 KV switchyard operations

**Training Date:** 20.11.17

**Training Time:** 9:00 am to 12:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Fundamental of electricity, basic concept of grounding. Standard practice for electrical works, Safe work practice. Steps of LOTO, Job assessment for PPEs, Definition of PPE, types of PPE. Job hazard assessment. What to do if anyone get shock. First aid for eclectic shock. hazard control techniques.etc

**Pictures of the Training**



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|  <p>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</p> <p>TITLE: ATTENDANCE SHEET</p> |  | Document No: SMPCL-A&P-F-076 |
|  |   | Revision No.: 00             |
|  |   | Effective Date: 14 Jan 16    |
|  |   | Page 1 of 1                  |



ATTENDANCE SHEET

Monthly EHS & Technical Training (Nov-17)

Date: 20/11/17

| S/N | Name of Attendees       | Department | Signature   |
|-----|-------------------------|------------|-------------|
| 1   | Md. Rezaul Karim        | A&P        | [Signature] |
| 2   | Md. Rana Azim           | EMD        | [Signature] |
| 3   | Md. Raihan Hossain      | OPN        | [Signature] |
| 4   | Goutam K. Nath          | A&P        | [Signature] |
| 5   | Rashed Muhammad Razub   | Trainee    | [Signature] |
| 6   | Md. Salim               | MMD        | [Signature] |
| 7   | Md. Johan Hossain       | MMD        | [Signature] |
| 8   | Muhammad Sakawatul Bari | MMD        | [Signature] |
| 9   | Sujan Deb Nath          | MMD        | [Signature] |
| 10  | Toray Rahman            | Trainee    | [Signature] |
| 11  | Mastofa Meraj Bisha     | I&C        | [Signature] |
| 12  | Zahinal Islam           | MMD        | [Signature] |
| 12  | Suman Sarkar            | OPN        | [Signature] |
| 13  | Suprabhat K. Chandra    | I&C        | [Signature] |
| 14  | Ashis Kumar Das         | ASP        | [Signature] |
| 15  | MD. ASIF ZAMAN          | Trainee    | [Signature] |
| 16  | MD. ASIF ul Alam        | OPN        | [Signature] |
| 17  | CHANDHAL                | MMD        | [Signature] |
| 18  | MD. ASLAM               | MMD        | [Signature] |
| 19  | Md. Nizam Uddin         | M. M. D    | [Signature] |
| 20  | Md. Mortay Hossain      | EHS        | [Signature] |
| 21  | KH. MONIRUZZAMAN        | MMD        | [Signature] |
| 22  | ASHIK AHMED             | MMD        | [Signature] |
| 23  | Mohammad Razvon Mori    | OPD        | [Signature] |
| 24  | Md. Ismail Hossain      | EMD        | [Signature] |



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|  <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. | Document No: SMPCL-EHS-F-035 |
|   | Revision No.: 00             |
| <b>TITLE: EHS TRAINING REPORT</b>   | Effective Date: 10 Jan 16    |
|   | Page 1 of 1                  |

**EHS Training Topic:** Behavioral guideline for Personnel handling for security personnel's only

**Technical Training Topic:** Maintenance skill on control valves

**Training Date:** 27.12.17

**Training Time:** 2:30 pm to 4:30 pm

**Training Venue:** Conference Room

**Covers in Areas:** Definition of control valves, Types of valves, mechanism of control valves. Basic understanding of DCS, introduction to Instrumentation control system. Process flow diagram,

#### Pictures of the Training

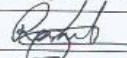















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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-A&P-F-076 |
|  | Revision No.: 00             |
|  | Effective Date: 14 Jan 16    |
|  | Page 1 of 1                  |
| <b>TITLE: ATTENDANCE SHEET</b>   |                              |

**ATTENDANCE SHEET**

Monthly Technical Training (for the month of Dec 17)

Date: 27/12/17

| S/N | Name of Attendees     | Department | Signature   |
|-----|-----------------------|------------|---|
| 01  | Rashed Muhammad Yagub | Trainee    |    |
| 02  | Tonu Rahman           | Trainer    |    |
| 03  | Koushik Ghosh         | OPN        |    |
| 04  | Mastofa Meraj Hasha.  | ISC        |    |
| 05  | MD. ASIF ZAMAN        | Trainee    |    |
| 06  | md. Rana Arun         | EMD        |    |
| 07  | Sujan Deb Nath        | MMD        |    |
| 08  | Ashik Ahmed           | MMD        |   |
| 09  | Sudaman Sarkar        | OPN        |  |
| 10  | KA. MONIRUZZAMAN      | MMD        |  |
| 11  | Y. R. Jimy            | PM         |  |
| 12  | Kamrul Hasan          | PBE        |  |
| 13  | Azif ul Alam          | IT - OPN   |  |
| 14  | Mod. Aslem. A         | M.M.D      |  |
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10.5 **Annexure-5 First Aid (Refresher) Training Report**

**Bangladesh Red Crescent Society**

**Training Department**

**TRAINING COORDINATOR'S REPORT**


1. **Title of the Training:** Refresher Training on First Aid Date: 04/10/2017
2. **Organizer/Host:** Summit Meghnaghat Power Company Limited
3. **Course Objective:** Participants are able to gained update information and refresh their knowledge and skill from the training and also able to provide assistant to other causality.
4. **Venue:** Summit Meghnaghat Power Plant Premises, Baranagar, Narayanganj.
5. **Duration:** 19 & 20 Sep. 2017 (2 courses)
6. **Name of the Facilitators:** Ms. Supriya Saha and Ms. Sharmin Akter Papry.
7. **No. of participants:**  
By gender: **Male:** 32 + 33=65 **Female:** 0 **Total:** 65

**Overall Impression:** The training environment of the organizations was very excellent, friendly and was also Academic atmosphere for the learning point of view. Training room space was not enough for practical demonstrations because there is lots of practical sessions which very important for participants. We are very much happy to receive good and cordial entertainment during whole training.

**Participant:** Participants was very much active and enthusiastic regarding training. We hope nowadays all participants are very much confident and they will also be able to give assistant to the causalities' at any emergency situation as a first aider. But they should practice time to time.

**Conclusion:** I would like to express my gratitude to you and your organization for supporting us with this training programme. As you know BDRCS is one of the Humanitarian organizations for elevating suffering the distressed people. So far my understanding Summit Power Company Ltd. also doing people welfare through their service to the different vulnerable community and also build up the capacity of different classes and groups by their supports.

Submitted with thanks:

  
**Supriya Saha**  
Course Coordinator  
Training Department  
Bangladesh Red Crescent Society



**10.6 Annexure-6 Ambient air quality test record**



## Adroit Environment Consultants Ltd.

A House of Complete Environmental Management Solutions

### AECL LABORATORY ANALYSIS REPORT AMBIENT AIR QUALITY TEST REPORT

**Memo # AECL** : 621  
**Enterprise** : Summit Meghnaghat Power Company Limited (SMPL) 337MW / 305 MW Dual Fuel  
CCPP  
**Factory Address** : Mouza-Chor Romjan Sonaulah, Union – Pirojpur, P/S- Sonargaon, Narayanganj,  
Bangladesh.  
**Description of Sample:** Ambient air quality test report.  
**Sample Collector** : Adroit Environment Consultants Ltd (Monitoring team)  
**Sampling Date** : 26-27<sup>th</sup> April, 2017  
**Sampling Time** : 24 Hours  
**Reporting date** : 3<sup>rd</sup> June, 2017

#### Description of analysis

| SN | Sample Description  | Ambient Air Pollution Concentration in µg/m3 |                  |             |                 |                      |                |
|----|---|--|------------------|-------------|-----------------|----------------------|----------------|
|    |   | PM <sub>2.5</sub>                            | PM <sub>10</sub> | SPM         | SO <sub>2</sub> | NO <sub>x</sub>      | CO             |
| 01 | Method of analysis  | Gravimetric                                  | Gravimetric      | Gravimetric | West-Geiske     | Jacob and Hochheiser | Indicator Tube |
| 02 | Test Duration (Minutes)   | 1440   | 1440             | 480         | 1440            | 60                   | 480            |
| 03 | Bangladesh (DoE) Standard   | 65   | 150              | 200         | 365             | NF*                  | 10000          |
| 04 | IFC /World Bank Standard  | 75   | 150              | NF          | 125             | 200                  | NF             |
| 05 | Concentration present in Project North-East corner (Near Main Gate)<br>Location Coordinate: N23°36'37.6";E90°35'58.8"     | 17.6   | 28.5             | 62.8        | 4.7             | 5.5                  | 465            |
| 06 | Concentration present in Project South-East corner (Near boundary area)<br>Location Coordinate: N23°36'25.3";E90°36'02.4" | 9.3  | 20.7             | 39.1        | 2.5             | 3.7                  | 445            |
| 07 | Concentration present in Project nearby LDO Tank Boundary<br>Location Coordinate: N23°36'27.87";E90°35'55.49"             | 13.4   | 21.5             | 32.8        | 4.6             | 4.0                  | 428            |
| 08 | Concentration present in Project nearby "Mongoler Gaon" Village<br>Location Coordinate: N23°37'87.2";E90°35'4.81"         | 14.1   | 29.9             | 45.3        | 10.3            | 13.9                 | 697            |
| 09 | Remarks   | Good   | Good             | Good        | Good            | Good                 | Excellent      |

(NF – not found, DoE – Department of Environment.)  
\*1-hour standard Not Found

**Note:** - This monitoring report was accomplished by -  
Respirable Dust Sampler (Model-Envirotech India APM-460BL) and  
Fine Particulate Sampler (Model-Envirotech India AAS-127BL)

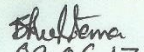
1. Fine Particulate Matter (PM<sub>2.5</sub>).
2. Respirable Dust Content (PM<sub>10</sub>).
3. Suspended Particulate Matter (SPM).
4. Oxides of Nitrogen (NO<sub>x</sub>).
5. Oxides of Sulfur (SO<sub>x</sub>).
6. Carbone Mono-Oxide (CO).


## Adroit Environment Consultants Ltd.

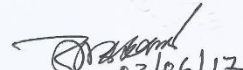
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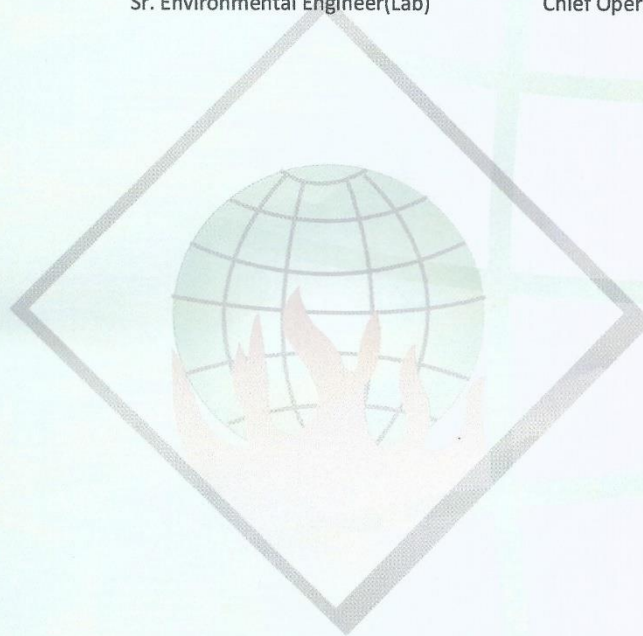


**Comment:** - The above result for ambient air quality monitoring shows the PM<sub>2.5</sub>, PM<sub>10</sub>, SPM, SO<sub>2</sub>, NO<sub>x</sub> & CO concentrations of the ambient air. From the above analysis it is observed that the concentrations of all these parameters are below the allowable limit as per Bangladesh Standard and International standard for ambient air. The weather was mostly sunny and sometimes cloudy as well.

  
03.06.17  
Nigar Sultana  
Sr. Chemist

  
03.06.17  
Md. Hadiuzzaman  
Sr. Environmental Engineer(Lab)

  
03/06/17  
Md. Zahedur Rahman  
Chief Operating Officer.



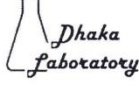


Summit Meghnaghat Power Company Limited  
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শেখ হাসিনার নির্দেশ  
জলবায়ু সহিষ্ণু বাংলাদেশ

শেখ হাসিনার বাংলাদেশ  
পরিচ্ছন্ন পরিবেশ



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
পরিবেশ অধিদপ্তর  
ঢাকা গবেষণাগার



ই-১৬, আগারগাঁও, শেরে বাংলা নগর, ঢাকা-১২০৭  
[www.doe.gov.bd](http://www.doe.gov.bd)

স্মারক নং-২২.০২.০০০০.১১১.৬৮.০০১.১৩.৫-০০

তারিখঃ ০৫/০৮/১৭ ইং

প্রাপক : ব্যবস্থাপনা পরিচালক  
সামিট মেঘনাঘাট পাওয়ার কোম্পানী লিঃ  
চররমজান, সোনারগাঁও, নারায়নগঞ্জ।

বিষয় : চররমজান, সোনারগাঁও, নারায়নগঞ্জ -এ অবস্থিত "সামিট মেঘনাঘাট পাওয়ার কোম্পানী লিঃ"এর পরিবেষ্টক বায়ুর  
নমুনা বিশ্লেষিত ফলাফল।

সূত্র :- আবেদন নং: T-৩০৫, ১৪৮৫, ২৮১৮, ; তারিখ-২৩/০১/১৭, ১৮/০৪/১৭, ৩০/০৭/১৭ইং

উপর্যুক্ত বিষয় ও সূত্রের বরাতে পত্রের চাহিদা মোতাবেক পরিবেষ্টক বায়ুর নমুনা বিশ্লেষিত ফলাফলের উপাত্তসীট  
নিম্নে প্রদত্ত হলোঃ

| Sample Location                   | Date     | Ambient Air Pollutant Concentration in<br>micro gram/cubic meter |                 |                 | Remarks  |
|-----------------------------------|----------|--|-----------------|-----------------|--|
|                                   |          | SPM  | NO <sub>x</sub> | SO <sub>2</sub> |  |
| East side & 15m<br>from boundary. | 09.08.17 | 161  | 27              | ND              | • Wind direction<br>was from<br>south to north.<br>• Weather was<br>rainy. |
| <b>Air Quality Standard</b>       |          | <b>200</b>   | <b>100</b>      | <b>365</b>      | -----  |

Note:- 1. SO<sub>2</sub>- Sulfur dioxide and NO<sub>x</sub> - Oxides of Nitrogen 2. SPM- Suspended Particulate Matter.  
3. ND-Not detected.

- বাংলাদেশ পরিবেশ সংরক্ষণ বিধিমালা, ১৯৯৭(সংশোধনী-২০০৫) অনুযায়ী, সকল প্যারামিটার এর মান গ্রহনযোগ্য মান  
মাত্রার মধ্যে আছে।

প্রস্তুতকারক  
৩১-০৪-১৭  
(মোহাম্মদ সাফিয়া আক্তার)  
জুনিয়র কেমিস্ট

৩১/০৪/১৭  
(মোঃ জহিরুল ইসলাম তালুকদার)  
সিনিয়র কেমিস্ট

৩১/০৪/১৭  
(মোঃ মোস্তাফিজুর রহমান আখন্দ)  
উপপরিচালক

৩১/০৪/১৭  
(ড. মুঃ সোহরাব আলি)  
পরিচালক



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**GECL LABORATORY ANALYSIS REPORT**  
**ON**  
**AMBIENT AIR QUALITY ANALYSIS REPORT**

GECL/Code (TR) : 887  
Company Name : SUMMIT MEGHNAGHAT POWER COMPANY LIMITED (337MW/305MW DUAL FUEL CCPP).  
Address : Mouza-Chor Romjan Sonallah, Union - Pirojpur, P/S- Sonargaon, Narayanganj, Bangladesh.  
Location (GPS) Coordinate : N- 23° 36' 33.74'' & E - 90° 35' 55.83''

Sample Collector : Global Environment Consultants Ltd (GECL Monitoring Team).  
Description of Sample : Ambient Air Quality Analysis Report (Plant outside area).  
Sampling date : 20<sup>th</sup> September, 2017  
Sampling Time : 24 hours  
Reporting date : 25<sup>th</sup> September, 2017

**Description of analysis**

| Sample Location with GPS<br>Coordinate   | Concentration present of different parameter in ambient air ( $\mu\text{g}/\text{m}^3$ ) |                          |                          |                          |                           |                                |                                |                                  |
|--|--|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------------|--------------------------------|----------------------------------|
|  | PM <sub>2.5</sub>  | PM <sub>10</sub>         | SPM                      | SO <sub>2</sub>          | NO <sub>x</sub>           | CO                             | VOC                            | O <sub>3</sub>                   |
| Near Main gate area (GPS<br>Coordinate :<br>N- 23° 36' 38.70'' &<br>E - 90° 35' 59.10'')   | 23.16  | 42.25                    | 121.12                   | 12.15                    | 21.29                     | 210                            | 37.21                          | 23.18                            |
| Near CWP Building area (GPS<br>Coordinate :<br>N- 23° 36' 28.40'' &<br>E - 90° 35' 55.20'')  | 24.21  | 48.13                    | 137.32                   | 14.18                    | 22.39                     | 234                            | 39.31                          | 25.14                            |
| Jetty area, Near West Oil<br>Treatment Building (GPS<br>Coordinate :<br>N- 23° 36' 25.80'' &<br>E - 90° 36' 02.20'')   | 22.36  | 41.38                    | 131.25                   | 17.22                    | 24.18                     | 247                            | 69.22                          | 28.37                            |
| North West Side 1.5 kilometer<br>Distance from Power Plant, at<br>Mongalargoan Village<br>Near Mongalargoan Jame Masjid<br>(GPS Coordinate :<br>N- 23° 37' 09.10'' &<br>E - 90° 35' 05.30'') | 19.27  | 39.7                     | 116.21                   | 9.17                     | 17.23                     | 164                            | 19.28                          | 29.47                            |
| Units  | $\mu\text{g}/\text{m}^3$   | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$  | $\mu\text{g}/\text{m}^3$       | $\mu\text{g}/\text{m}^3$       | $\mu\text{g}/\text{m}^3$         |
| Test Duration (Minutes)  | 1440   | 1440                     | 480                      | 1440                     | 60                        | 480                            | 480                            | 480                              |
| Method of Analysis   | Gravi-<br>metric   | Gravi-<br>metric         | Gravi-<br>metric         | West-<br>Gaeke           | Jacob &<br>Hochheis<br>er | Electro-<br>chemical<br>Sensor | Electro-<br>chemical<br>Sensor | Iodometric<br>chemical<br>method |
| Bangladesh (DoE) Standard for<br>ambient Air   | 65   | 150                      | 200                      | 365                      | 100                       | 10,000                         | NF                             | 157                              |
| IFC/WB Standard  | 25   | 50                       | NF                       | 20                       | 200                       | NF                             | NF                             | 100                              |
| Remark   | Good   | Good                     | Good                     | Good                     | Good                      | Good                           | Good                           | Good                             |

Page 1 of 2





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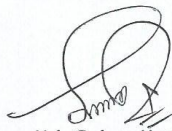
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Management & Development



**Note:** This ambient air monitoring report was usually accomplished by - Respirable Dust Sampler (Model-Envirotech India APM-460 NL) and Fine Particulate Sampler (Model-Envirotech India APM-550)

**Abbreviation:** 1. Fine Particulate Matter ( $PM_{2.5}$ ) 2. Respirable Dust Content ( $PM_{10}$ ) 3. Suspended Particulate Matter (SPM), 4 Oxides of Nitrogen ( $NO_x$ ) 5. Sulphur di-Oxide ( $SO_2$ ) 6. Carbone Mono-Oxide (CO), 7. Ozone ( $O_3$ ) 8. Volatile Organic Compound (VOC), DoE- Department of Environment, NF - Not found, WB -World Bank, IFC - International Finance Corporation.

**Comment:** - The atmospheric air samples have been collected by the high-volume sampler attached with gaseous impinger for the determination of  $SO_2$  VOC,  $O_3$   $NO_x$  and CO. The value of gaseous pollutants has been collected by further laboratory analysis. The value of SPM including  $PM_{10}$  &  $PM_{2.5}$  have been obtaining by the weight the Whatman filter paper and dust cup before and after through the gravimetric method. The results of ambient air quality parameters of Summit Meghnaghat Power Company Limited (SMPCL) are shown in the above-mentioned table. The concentrations of ambient air quality parameters are (SPM,  $PM_{2.5}$ ,  $PM_{10}$ ,  $SO_2$ ,  $O_3$ ,  $NO_x$  and CO) in between the acceptable limit of Department of Environment (DOE), GOB (ECR, 1997) and also IFC (30 April, 2007). A very small amount of VOC is seen in the ambient air quality. The Sampling time was Cloudy and few millimeter (1 hour) raining during collection of samples at the location of Summit Meghnaghat Power Company Limited (SMPCL). The wind direction was from the South-East to North-west corner. Due to good ambient air quality (NDA) that indicated, the Summit Meghnaghat Power Company Limited (SMPCL) is not shown any detrimental effect to the surrounding environment.



**Md. Golam Mostafa**  
Chief Executive Officer  
Environmental Analysis & Development  
Global Environment Consultants Ltd (GECL).



**MOHD NUR E ALAM SIDDIQUE**  
Director (Analysis & Development)  
Analytical & Environmental Laboratory (GECL)  
B.Sc (Hons) M.Sc (SUST) M. Phil (DU),  
PhD Research Fellow (DU) Chemistry

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**10.7 Annexure-7 River water temperature Monitoring record**

Jan'17

| Date     | Time | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks  |
|----------|------|------------------------|-------------------------|-----------|----------|
| 01.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 02.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 03.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 04.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 05.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 06.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 07.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 08.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 09.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 10.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 11.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 12.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 13.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 14.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 15.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 16.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 17.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 18.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 19.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 20.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 21.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 22.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 23.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 24.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 25.01.17 |      |                        |                         | 0         | Shutdown |
|          |      |                        |                         | 0         | Shutdown |
| 26.01.17 |      |                        |                         | 0         | Shutdown |



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|          |  |  |  |   |          |
|----------|--|--|--|---|----------|
|          |  |  |  | 0 | Shutdown |
| 27.01.17 |  |  |  | 0 | Shutdown |
|          |  |  |  | 0 | Shutdown |
| 28.01.17 |  |  |  | 0 | Shutdown |
|          |  |  |  | 0 | Shutdown |
| 29.01.17 |  |  |  | 0 | Shutdown |
|          |  |  |  | 0 | Shutdown |
| 30.01.17 |  |  |  | 0 | Shutdown |
|          |  |  |  | 0 | Shutdown |
| 31.01.17 |  |  |  | 0 | Shutdown |
|          |  |  |  | 0 | Shutdown |

Feb'17

| Date     | Time | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks | Load(MW) | Remarks |
|----------|------|------------------------|-------------------------|-----------|---------|----------|---------|
| 01.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 02.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 03.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 04.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 05.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 06.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 07.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 08.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 09.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 10.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 11.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 12.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 13.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 14.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 15.02.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |



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|          |  |  |  |   |  |          |  |
|----------|--|--|--|---|--|----------|--|
| 16.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 17.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 18.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 19.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 20.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 21.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 22.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 23.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 24.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 25.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 26.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 27.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 28.02.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |

Mar'17

| Date     | Time | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks | Load(MW) | Remarks |
|----------|------|------------------------|-------------------------|-----------|---------|----------|---------|
| 01.03.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 02.03.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 03.03.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 04.03.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 05.03.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |
| 06.03.17 |      |                        |                         | 0         |         | Shutdown |         |
|          |      |                        |                         | 0         |         | Shutdown |         |



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|          |  |  |  |   |  |          |  |
|----------|--|--|--|---|--|----------|--|
| 07.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 08.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 09.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 10.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 11.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 12.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 13.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 14.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 15.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 16.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 17.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 18.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 19.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 20.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 21.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 22.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 23.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 24.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 25.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 26.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 27.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 28.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |



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|          |  |  |  |   |  |          |  |
|----------|--|--|--|---|--|----------|--|
| 29.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 30.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |
| 31.03.17 |  |  |  | 0 |  | Shutdown |  |
|          |  |  |  | 0 |  | Shutdown |  |

April'17

| Date     | Time     | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks | Load(MW) | Remarks |
|----------|----------|------------------------|-------------------------|-----------|---------|----------|---------|
| 01.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 02.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 03.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 04.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 05.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 06.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 07.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 08.04.17 |          |                        |                         | 0         |         | Shutdown |         |
|          |          |                        |                         | 0         |         | Shutdown |         |
| 09.04.17 | 10.30 am | 26.5                   | 29                      | 2.5       |         | 90       |         |
|          | 4.30 pm  | 27                     | 29.5                    | 2.5       |         | 105      |         |
| 10.04.17 | 9.30 am  | 26.5                   | 29                      | 2.5       |         | 105      |         |
|          | 4.30 pm  | 26.6                   | 29                      | 2.4       |         | 190      |         |
| 11.04.17 | 9.00 am  | 26.5                   | 29                      | 2.5       |         | 290      |         |
|          | 4.30 pm  | 26.5                   | 29                      | 2.5       |         | 280      |         |
| 12.04.17 | 9.00 am  | 26.5                   | 29                      | 2.5       |         | 275      |         |
|          | 4.30 pm  | 26.68                  | 29.5                    | 2.82      |         | 276      |         |
| 13.04.17 | 9.00 am  | 27.06                  | 29.5                    | 2.44      |         | 272      |         |
|          | 4.00 pm  | 27.25                  | 30                      | 2.75      |         | 270      |         |
| 14.04.17 | 9.00 am  | 27                     | 29.5                    | 2.5       |         | 275      |         |
|          | 4.00 pm  | 27.5                   | 30                      | 2.5       |         | 266      |         |
| 15.04.17 | 9.00 am  | 28.26                  | 30.5                    | 2.24      |         | 230      |         |
|          | 4.30 pm  | 28                     | 30.5                    | 2.5       |         | 280      |         |
| 16.04.17 | 9.00 am  | 28.46                  | 30.75                   | 2.29      |         | 299      |         |



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|          |         |       |      |      |  |     |  |
|----------|---------|-------|------|------|--|-----|--|
|          | 4.00 pm | 29    | 31.5 | 2.5  |  | 288 |  |
| 17.04.17 | 9.00 am | 29.53 | 32   | 2.47 |  | 285 |  |
|          | 4.00 pm | 29.5  | 32   | 2.5  |  | 276 |  |
| 18.04.17 | 9.30 am | 30    | 32.5 | 2.5  |  | 285 |  |
|          | 4.00 pm | 29.78 | 32.5 | 2.72 |  | 276 |  |
| 19.04.17 | 9.00 am | 30.25 | 32.5 | 2.25 |  | 280 |  |
|          | 4.00 pm | 29.58 | 32   | 2.42 |  | 282 |  |
| 20.04.17 | 9.30 am | 29.53 | 32   | 2.47 |  | 278 |  |
|          | 4.00 pm | 29.78 | 32   | 2.22 |  | 285 |  |
| 21.04.17 | 9.00 am | 29.35 | 32   | 2.65 |  | 290 |  |
|          | 4.30 pm | 28.94 | 31.5 | 2.56 |  | 286 |  |
| 22.04.17 | 9.00 am | 28.88 | 31.5 | 2.62 |  | 292 |  |
|          | 4.00 pm | 28.78 | 31.5 | 2.72 |  | 290 |  |
| 23.04.17 | 9.00 am | 28.3  | 31   | 2.7  |  | 268 |  |
|          | 4.00 pm | 28.4  | 31   | 2.6  |  | 270 |  |
| 24.04.17 | 9.30 am | 28.5  | 31   | 2.5  |  | 280 |  |
|          | 4.00 pm | 28.44 | 31   | 2.56 |  | 277 |  |
| 25.04.17 | 9.00 am | 26.68 | 29.5 | 2.82 |  | 294 |  |
|          | 4.00 pm | 26.7  | 29.5 | 2.8  |  | 290 |  |
| 26.04.17 | 9.00 am | 27.1  | 29.5 | 2.4  |  | 280 |  |
|          | 4.00 pm | 27.58 | 30   | 2.42 |  | 277 |  |
| 27.04.17 | 9.00 am | 27.44 | 30   | 2.56 |  | 245 |  |
|          | 4.30 pm | 27.6  | 30   | 2.4  |  | 250 |  |
| 28.04.17 | 9.30 am | 27.8  | 30.5 | 2.7  |  | 265 |  |
|          | 4.00 pm | 28.25 | 31   | 2.75 |  | 270 |  |
| 29.04.17 | 9.00 am | 27.78 | 30.5 | 2.72 |  | 284 |  |
|          | 4.00 pm | 28.2  | 31   | 2.8  |  | 280 |  |
| 30.04.17 | 9.30 am | 28.15 | 31   | 2.85 |  | 285 |  |
|          | 4.00 pm | 28.78 | 31.5 | 2.72 |  | 278 |  |

May'17

| Date     | Time    | River Water Inlet temp | River water outlet temp | Temp Diff | Load(MW) | Remarks |
|----------|---------|------------------------|-------------------------|-----------|----------|---------|
| 01.05.17 | 9.00 am | 28.8                   | 31.5                    | 2.7       | 286      |         |
|          | 4.0 pm  | 28.92                  | 31.5                    | 2.58      | 282      |         |
| 02.05.17 | 9.00 am | 28.78                  | 31.5                    | 2.72      | 271      |         |
|          | 4.0 pm  | 28.68                  | 31.5                    | 2.82      | 275      |         |
| 03.05.17 | 9.00 am | 28.82                  | 31.5                    | 2.68      | 285      |         |
|          | 4.30 pm | 29.78                  | 32                      | 2.22      | 242      |         |
| 04.05.17 | 9.00 am | 29.96                  | 32.75                   | 2.79      | 243      |         |
|          | 4.0 pm  | 30.37                  | 33                      | 2.63      | 238      |         |



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|          |         |       |       |      |     |  |
|----------|---------|-------|-------|------|-----|--|
| 05.05.17 | 9.00 am | 29.96 | 32.75 | 2.79 | 270 |  |
|          | 4.0 pm  | 29.84 | 32.5  | 2.66 | 285 |  |
| 06.05.17 | 9.00 am | 29.88 | 32.75 | 2.87 | 290 |  |
|          | 4.0 pm  | 29.98 | 32.75 | 2.77 | 275 |  |
| 07.05.17 | 9.00 am | 29.9  | 32.75 | 2.85 | 288 |  |
|          | 4.30 pm | 30.68 | 33.5  | 2.82 | 270 |  |
| 08.05.17 | 9.00 am | 30.88 | 33.5  | 2.62 | 265 |  |
|          | 4.30 pm | 30.78 | 33.5  | 2.72 | 245 |  |
| 09.05.17 | 9.00 am | 30.98 | 33.5  | 2.52 | 225 |  |
|          | 4.30 pm | 30.88 | 33.5  | 2.62 | 265 |  |
| 10.05.17 | 4.30 pm | 30.75 | 33.5  | 2.75 | 270 |  |
|          | 4.30 pm | 30.65 | 33.5  | 2.85 | 275 |  |
| 11.05.17 | 9.00 am | 30.47 | 33    | 2.53 | 272 |  |
|          | 4.30 pm | 31    | 33.5  | 2.5  | 260 |  |
| 12.05.17 | 9.30 am | 31.08 | 33.5  | 2.42 | 265 |  |
|          | 4.0 pm  | 31.26 | 34    | 2.74 | 250 |  |
| 13.05.17 | 9.30 am | 31.02 | 33.5  | 2.48 | 248 |  |
|          | 4.0 pm  | 31.12 | 33.5  | 2.38 | 265 |  |
| 14.05.17 | 9.00 am | 31.04 | 33.5  | 2.46 | 185 |  |
|          | 4.30 pm | 31.26 | 34    | 2.74 | 230 |  |
| 15.05.17 | 9.00 am | 30.74 | 33.5  | 2.76 | 275 |  |
|          | 4.30 pm | 30.88 | 33.5  | 2.62 | 262 |  |
| 16.05.17 | 9.00 am | 30.86 | 33.5  | 2.64 | 250 |  |
|          | 4.30 pm | 31.12 | 34    | 2.88 | 245 |  |
| 17.05.17 | 9.00 am | 31.32 | 34    | 2.68 | 250 |  |
|          | 4.30 pm | 30.92 | 33.5  | 2.58 | 230 |  |
| 18.05.17 | 9.00 am | 30.86 | 33.5  | 2.64 | 245 |  |
|          | 4.30 pm | 31.3  | 34    | 2.7  | 225 |  |
| 19.05.17 | 9.00 am | 30.88 | 33.5  | 2.62 | 199 |  |
|          | 4.0 pm  | 31.32 | 33.5  | 2.18 | 210 |  |
| 20.05.17 | 4.30 pm | 31.4  | 34    | 2.6  | 270 |  |
|          | 4.0 pm  | 31.5  | 34    | 2.5  | 285 |  |
| 21.05.17 | 9.00 am | 31.46 | 34    | 2.54 | 322 |  |
|          | 4.0 pm  | 31.5  | 34    | 2.5  | 285 |  |
| 22.05.17 | 9.00 am | 32.28 | 35    | 2.72 | 220 |  |
|          | 4.0 pm  | 32.22 | 35    | 2.78 | 245 |  |
| 23.05.17 | 9.00 am | 32.8  | 35    | 2.2  | 280 |  |
|          | 4.0 pm  | 33.03 | 35.5  | 2.47 | 308 |  |
| 24.05.17 | 9.00 am | 32.48 | 35    | 2.52 | 312 |  |
|          | 4.0 pm  | 33.06 | 35.5  | 2.44 | 301 |  |
| 25.05.17 | 9.00 am | 32.15 | 35    | 2.85 | 315 |  |
|          | 4.0 pm  | 32.32 | 35    | 2.68 | 280 |  |
| 26.05.17 | 9.00 am | 32.38 | 35    | 2.62 | 275 |  |
|          | 4.0 pm  | 32.4  | 35    | 2.6  | 250 |  |





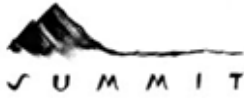
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|          |         |       |      |      |     |  |
|----------|---------|-------|------|------|-----|--|
| 27.05.17 | 9.00 am | 32.44 | 35   | 2.56 | 240 |  |
|          | 4.0 pm  | 32.38 | 35   | 2.62 | 285 |  |
| 28.05.17 | 9.00 am | 32.22 | 35   | 2.78 | 295 |  |
|          | 4.0 pm  | 32.3  | 35   | 2.7  | 290 |  |
| 29.05.17 | 9.00 am | 33.11 | 35.5 | 2.39 | 309 |  |
|          | 4.0 pm  | 32.97 | 35.5 | 2.53 | 258 |  |
| 30.05.17 | 9.00 am | 32.66 | 35   | 2.34 | 270 |  |
|          | 4.0 pm  | 32.44 | 35   | 2.56 | 265 |  |
| 31.05.17 | 9.00 am | 32.49 | 35   | 2.51 | 269 |  |
|          | 4.0 pm  | 32.38 | 35   | 2.62 | 267 |  |

June'17

| Date     | Time    | River Water Inlet temp | River water outlet temp | Temp Diff | Load(MW) | Remarks |
|----------|---------|------------------------|-------------------------|-----------|----------|---------|
| 01.06.17 | 9.00 am | 32.48                  | 35                      | 2.52      | 252      |         |
|          | 4.0 pm  | 32.5                   | 35                      | 2.5       | 263      |         |
| 02.06.17 | 9.00 am | 32.62                  | 35                      | 2.38      | 248      |         |
|          | 4.0 pm  | 32.4                   | 35                      | 2.6       | 270      |         |
| 03.06.17 | 9.00 am | 32.52                  | 35                      | 2.48      | 250      |         |
|          | 4.30 pm | 32.62                  | 35                      | 2.38      | 247      |         |
| 04.06.17 | 9.00 am | 32.42                  | 35                      | 2.58      | 252      |         |
|          | 4.0 pm  | 29.66                  | 32.5                    | 2.84      | 250      |         |
| 05.06.17 | 9.00 am | 29.76                  | 32.5                    | 2.74      | 169      |         |
|          | 4.0 pm  | 29.82                  | 32.5                    | 2.68      | 225      |         |
| 06.06.17 | 9.00 am | 29.95                  | 32.5                    | 2.55      | 220      |         |
|          | 4.0 pm  | 29.65                  | 32.5                    | 2.85      | 225      |         |
| 07.06.17 | 9.00 am | 29.73                  | 32.5                    | 2.77      | 228      |         |
|          | 3.0 pm  | 30.25                  | 33                      | 2.75      | 220      |         |
| 08.06.17 | 9.00 am | 30.14                  | 33                      | 2.86      | 224      |         |
|          | 3.0 pm  | 30.68                  | 33.5                    | 2.82      | 275      |         |
| 09.06.17 | 9.00 am | 30.94                  | 33.5                    | 2.56      | 224      |         |
|          | 3.0 pm  | 30.78                  | 33.5                    | 2.72      | 235      |         |
| 10.06.17 | 9.00 am | 31.5                   | 34                      | 2.5       | 230      |         |
|          | 3.0 pm  | 31.42                  | 34                      | 2.58      | 225      |         |
| 11.06.17 | 9.00 am | 32.1                   | 34.5                    | 2.4       | 220      |         |
|          | 3.0 pm  | 32.49                  | 35                      | 2.51      | 225      |         |
| 12.06.17 | 9.00 am | 32.34                  | 35                      | 2.66      | 224      |         |
|          | 3.0 pm  | 32.3                   | 35                      | 2.7       | 220      |         |
| 13.06.17 | 9.00 am | 31.84                  | 34.5                    | 2.66      | 23       |         |
|          | 3.30 pm | 31.5                   | 34                      | 2.5       | 50       |         |
| 14.06.17 | 9.00 am | 31.63                  | 34                      | 2.37      | 114      |         |



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|          |         |       |       |      |     |          |
|----------|---------|-------|-------|------|-----|----------|
|          | 3.0 pm  | 31.25 | 34    | 2.75 | 117 |          |
| 15.06.17 | 9.00 am | 30.97 | 33.5  | 2.53 | 115 |          |
|          | 3.30 pm | 30.78 | 33.5  | 2.72 | 120 |          |
| 16.06.17 | 9.00 am | 30.88 | 33.5  | 2.62 | 118 |          |
|          | 3.30 pm | 30.84 | 33.5  | 2.66 | 120 |          |
| 17.06.17 | 9.00 am | 29.98 | 32.75 | 2.77 | 221 |          |
|          | 3.30 pm | 30.88 | 33.5  | 2.62 | 220 |          |
| 18.06.17 | 9.00 am | 30.98 | 33.5  | 2.52 | 216 |          |
|          | 3.30 pm | 30.56 | 33.25 | 2.69 | 220 |          |
| 19.06.17 | 9.00 am | 30.17 | 33    | 2.83 | 213 |          |
|          | 3.30 pm | 30.42 | 33    | 2.58 | 220 |          |
| 20.06.17 | 9.00 am | 30.4  | 33    | 2.6  | 224 |          |
|          | 3.30 pm | 30.52 | 33    | 2.48 | 225 |          |
| 21.06.17 | 9.00 am | 30.32 | 33    | 2.68 | 240 |          |
|          | 3.0 pm  | 30.2  | 32.5  | 2.3  | 225 |          |
| 22.06.17 | 9.00 am | 29.51 | 32    | 2.49 | 220 |          |
|          | 3.30 pm | 30.32 | 33    | 2.68 | 215 |          |
| 23.06.17 | 9.00 am | 30.22 | 33    | 2.78 | 221 |          |
|          | 3.30 pm | 30.26 | 33    | 2.74 | 218 |          |
| 24.06.17 | 9.00 am | 30.4  | 33    | 2.6  | 220 |          |
|          | 3.30 pm | 31.1  | 33.5  | 2.4  | 230 |          |
| 25.06.17 | 9.00 am | 31.4  | 34    | 2.6  | 240 |          |
|          | 3.30 pm | 31.6  | 34    | 2.4  | 225 |          |
| 26.06.17 | 9.00 am | 31.66 | 34    | 2.34 | 230 |          |
|          | 3.30 pm | 31.5  | 34    | 2.5  | 228 |          |
| 27.06.17 | 9.00 am | 31.66 | 34.5  | 2.84 | 241 |          |
|          | 3.30 pm | 32.22 | 35    | 2.78 | 225 |          |
| 28.06.17 | 9.00 am | 32.18 | 35    | 2.82 | 220 |          |
|          | 3.30 pm | 32.4  | 35    | 2.6  | 245 |          |
| 29.06.17 | 9.00 am | 32.51 | 35    | 2.49 | 251 |          |
|          | 3.30 pm | 0     | 0     | 0    | 0   | Shutdown |
| 30.06.17 | 9.00 am | 0     | 0     | 0    | 0   | Shutdown |
|          | 3.30 pm | 0     | 0     | 0    | 0   | Shutdown |

July'17

| Date     | Time    | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks  |
|----------|---------|------------------------|-------------------------|-----------|----------|
| 01.07.17 | 9.00 am | 0                      | 0                       | 0         | Shutdown |
|          | 4.0 pm  | 0                      | 0                       | 0         | Shutdown |
| 02.07.17 | 9.00 am | 0                      | 0                       | 0         | Shutdown |
|          | 4.0 pm  | 0                      | 0                       | 0         | Shutdown |
| 03.07.17 | 9.00 am | 0                      | 0                       | 0         | Shutdown |
|          | 4.30 pm | 0                      | 0                       | 0         | Shutdown |



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|           |         |       |       |      |          |
|-----------|---------|-------|-------|------|----------|
| 04.07.17  | 9.00 am | 0     | 0     | 0    | Shutdown |
|           | 4.0 pm  | 0     | 0     | 0    | Shutdown |
| 05.07.17  | 9.00 am | 0     | 0     | 0    | Shutdown |
|           | 4.0 pm  | 31.27 | 33.5  | 2.23 |          |
| 06.07.17  | 9.00 am | 31.3  | 33.71 | 2.41 |          |
|           | 4.0 pm  | 31.2  | 33.72 | 2.52 |          |
| 07.07.17  | 9.00 am | 31.25 | 33.85 | 2.60 |          |
|           | 3.0 pm  | 31.33 | 33.5  | 2.17 |          |
| 08.07.17  | 9.00 am | 31.35 | 33.75 | 2.40 |          |
|           | 3.0 pm  | 31.3  | 33.8  | 2.50 |          |
| 09.07.17  | 9.00 am | 31.27 | 33.75 | 2.48 |          |
|           | 3.0 pm  | 32.51 | 34.75 | 2.24 |          |
| 10.07.17  | 9.00 am | 32.57 | 34.8  | 2.23 |          |
|           | 4.0 pm  | 31.31 | 33.8  | 2.49 |          |
| 11.07.17  | 9.00 am | 30.9  | 33.65 | 2.75 |          |
|           | 3.0 pm  | 31.05 | 33.9  | 2.85 |          |
| 12.07.17  | 9.00 am | 30.3  | 33.1  | 2.80 |          |
|           | 3.0 pm  | 30.77 | 33.5  | 2.73 |          |
| 13.07.17  | 9.00 am | 30.65 | 33.2  | 2.55 |          |
|           | 3.30 pm | 30.72 | 33.5  | 2.78 |          |
| 14.07.17  | 9.00 am | 30.38 | 33.25 | 2.87 |          |
|           | 4.0 pm  | 30.52 | 33.2  | 2.68 |          |
| 15.07.17  | 9.00 am | 30.72 | 33.15 | 2.43 |          |
|           | 3.30 pm | 31.5  | 34.2  | 2.70 |          |
| 16.07.17  | 9.00 am | 30.5  | 33.25 | 2.75 |          |
|           | 3.30 pm | 31.25 | 33.75 | 2.50 |          |
| 17.07.17  | 9.00 am | 31.87 | 34.25 | 2.38 |          |
|           | 4.0 pm  | 32.2  | 34.65 | 2.45 |          |
| 18.07.17  | 9.00 am | 32.1  | 34.75 | 2.65 |          |
|           | 4.00 pm | 33.68 | 35.85 | 2.17 |          |
| 19.07.17  | 9.00 am | 33.31 | 35.5  | 2.19 |          |
|           | 4.0 pm  | 32.94 | 35.25 | 2.31 |          |
| 20.07.17  | 9.00 am | 32.33 | 35.2  | 2.87 |          |
|           | 3.30 pm | 32.83 | 35.5  | 2.67 |          |
| 21.07.17  | 9.00 am | 32.06 | 34.25 | 2.19 |          |
|           | 4.0 pm  | 31.62 | 34.2  | 2.58 |          |
| 22.067.17 | 9.00 am | 31.56 | 34.25 | 2.69 |          |
|           | 4.0 pm  | 31.25 | 33.8  | 2.55 |          |
| 23.07.17  | 9.00 am | 31.54 | 34.25 | 2.71 |          |
|           | 3.30 pm | 31.29 | 33.75 | 2.46 |          |
| 24.07.17  | 9.00 am | 30.5  | 33    | 2.50 |          |
|           | 3.30 pm | 30.64 | 33.5  | 2.86 |          |
| 25.07.17  | 9.00 am | 30.47 | 33.25 | 2.78 |          |
|           | 3.30 pm | 30.55 | 33.25 | 2.70 |          |



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|          |         |       |       |      |  |
|----------|---------|-------|-------|------|--|
| 26.07.17 | 9.00 am | 30.65 | 33.2  | 2.55 |  |
|          | 4.0 pm  | 30.25 | 33    | 2.75 |  |
| 27.07.17 | 9.00 am | 30.08 | 32.5  | 2.42 |  |
|          | 3.30 pm | 30.35 | 32.75 | 2.40 |  |
| 28.06.17 | 9.00 am | 30.45 | 33.15 | 2.70 |  |
|          | 3.30 pm | 30.42 | 33.2  | 2.78 |  |
| 29.07.17 | 9.00 am | 30.39 | 33.15 | 2.76 |  |
|          | 3.30 pm | 31.2  | 33.8  | 2.60 |  |
| 30.07.17 | 9.00 am | 30.5  | 33.15 | 2.65 |  |
|          | 4.0 pm  | 31.5  | 34.25 | 2.75 |  |
| 31.07.17 | 9.00 am | 31.65 | 34.3  | 2.65 |  |
|          | 4.0 pm  | 31.65 | 34.5  | 2.85 |  |

Aug'17

| Date     | Time    | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks |
|----------|---------|------------------------|-------------------------|-----------|---------|
| 01.08.17 | 8.40 am | 32.92                  | 35.15                   | 2.23      |         |
|          | 4.30 pm | 32.88                  | 35.3                    | 2.42      |         |
| 02.08.17 | 9.00 am | 32.53                  | 34.75                   | 2.22      |         |
|          | 4.0 pm  | 32.45                  | 35                      | 2.55      |         |
| 03.08.17 | 9.30 am | 32.42                  | 34.5                    | 2.08      |         |
|          | 4.30 pm | 32.5                   | 34.75                   | 2.25      |         |
| 04.08.17 | 9.00 am | 32.6                   | 34.7                    | 2.1       |         |
|          | 3.30 pm | 32.5                   | 35                      | 2.5       |         |
| 05.08.17 | 9.00 am | 32.17                  | 34.5                    | 2.33      |         |
|          | 4.0 pm  | 32.25                  | 34.5                    | 2.25      |         |
| 06.08.17 | 9.00 am | 32.37                  | 34.75                   | 2.38      |         |
|          | 4.0 pm  | 32.3                   | 35                      | 2.7       |         |
| 07.08.17 | 9.00 am | 32.25                  | 34.75                   | 2.5       |         |
|          | 3.0 pm  | 32.32                  | 34.5                    | 2.18      |         |
| 08.08.17 | 9.00 am | 32.4                   | 34.7                    | 2.3       |         |
|          | 3.0 pm  | 32.25                  | 34.8                    | 2.55      |         |
| 09.08.17 | 9.30 am | 31.86                  | 34.5                    | 2.64      |         |
|          | 3.30 pm | 31.66                  | 34.25                   | 2.59      |         |
| 10.08.17 | 9.00 am | 31.56                  | 34                      | 2.44      |         |
|          | 4.0 pm  | 31.4                   | 34.25                   | 2.85      |         |
| 11.08.17 | 9.00 am | 32.55                  | 34.75                   | 2.2       |         |
|          | 3.0 pm  | 31.56                  | 33.75                   | 2.19      |         |
| 12.08.17 | 9.00 am | 30.69                  | 33.5                    | 2.81      |         |



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|          |         |       |       |      |  |
|----------|---------|-------|-------|------|--|
|          | 3.0 pm  | 30.55 | 33.35 | 2.8  |  |
| 13.08.17 | 9.20 am | 30.33 | 33.15 | 2.82 |  |
|          | 3.40 pm | 30.65 | 33.15 | 2.5  |  |
| 14.08.17 | 9.00 am | 30.52 | 33.25 | 2.73 |  |
|          | 4.0 pm  | 30.55 | 33.25 | 2.7  |  |
| 15.08.17 | 9.00 am | 30.46 | 33.15 | 2.69 |  |
|          | 3.30 pm | 30.48 | 33.25 | 2.77 |  |
| 16.08.17 | 9.00 am | 30.55 | 33    | 2.45 |  |
|          | 3.30 pm | 30.35 | 32.75 | 2.4  |  |
| 17.08.17 | 9.00 am | 30.33 | 32.5  | 2.17 |  |
|          | 4.0 pm  | 30.54 | 33.25 | 2.71 |  |
| 18.08.17 | 9.00 am | 30.82 | 33.65 | 2.83 |  |
|          | 4.00 pm | 30.75 | 33.5  | 2.75 |  |
| 19.08.17 | 9.00 am | 30.88 | 33.25 | 2.37 |  |
|          | 4.0 pm  | 30.66 | 32.75 | 2.09 |  |
| 20.08.17 | 9.00 am | 30.97 | 33.5  | 2.53 |  |
|          | 3.30 pm | 30.98 | 33.75 | 2.77 |  |
| 21.08.17 | 9.00 am | 30.87 | 33.5  | 2.63 |  |
|          | 4.0 pm  | 31.25 | 33.75 | 2.5  |  |
| 22.08.17 | 8.50 am | 31.8  | 34.25 | 2.45 |  |
|          | 4.0 pm  | 31.89 | 34.5  | 2.61 |  |
| 23.08.17 | 9.30 am | 31.74 | 34.25 | 2.51 |  |
|          | 3.30 pm | 31.69 | 34    | 2.31 |  |
| 24.08.17 | 9.00 am | 31.55 | 33.75 | 2.2  |  |
|          | 3.30 pm | 31.85 | 34.25 | 2.4  |  |
| 25.08.17 | 9.00 am | 31.75 | 34.5  | 2.75 |  |
|          | 3.30 pm | 31.88 | 34.5  | 2.62 |  |
| 26.08.17 | 9.00 am | 31.94 | 34.25 | 2.31 |  |
|          | 4.0 pm  | 31.65 | 34.3  | 2.65 |  |
| 27.08.17 | 9.00 am | 31.75 | 34.5  | 2.75 |  |
|          | 3.30 pm | 31.88 | 34.5  | 2.62 |  |
| 28.08.17 | 9.00 am | 31.5  | 34.25 | 2.75 |  |
|          | 3.30 pm | 31.89 | 34.66 | 2.77 |  |
| 29.08.17 | 9.00 am | 31.25 | 33.7  | 2.45 |  |
|          | 3.30 pm | 31.8  | 34.45 | 2.65 |  |
| 30.08.17 | 9.30 am | 31.9  | 34.75 | 2.85 |  |
|          | 3.30 pm | 31.85 | 34.5  | 2.65 |  |
| 31.08.17 | 9.20 am | 31.75 | 34.55 | 2.8  |  |
|          | 3.20 pm | 31.82 | 34.7  | 2.88 |  |

Sep'17

| Date | Time | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks |
|------|------|------------------------|-------------------------|-----------|---------|
|------|------|------------------------|-------------------------|-----------|---------|



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|          |         |       |       |      |           |
|----------|---------|-------|-------|------|-----------|
| 01.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 02.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 03.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 04.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 05.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 06.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 07.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 08.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 09.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 10.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 11.09.17 |         |       |       | 0    | Shut down |
|          |         |       |       | 0    | Shut down |
| 12.09.17 | 8.40 am | 30.44 | 32.5  | 2.06 |           |
|          | 3.40 pm | 30.25 | 32.75 | 2.5  |           |
| 13.09.17 | 9.00 am | 30.45 | 33    | 2.55 |           |
|          | 4.00 pm | 30.66 | 33.25 | 2.59 |           |
| 14.09.17 | 9.40 am | 29.75 | 31.5  | 1.75 |           |
|          | 3.40 pm | 30.25 | 31.75 | 1.5  |           |
| 15.09.17 | 8.40 am | 30.44 | 31.6  | 1.16 |           |
|          | 4.00 pm | 30.3  | 31.5  | 1.2  |           |
| 16.09.17 | 8.40 am | 30.55 | 31.75 | 1.2  |           |
|          | 3.40 pm | 30.5  | 32.65 | 2.15 |           |
| 17.09.17 | 9.30 am | 30.3  | 32.5  | 2.2  |           |
|          | 3.30 pm | 30.7  | 32.5  | 1.8  |           |
| 18.09.17 | 9.00 am | 30.25 | 31.5  | 1.25 |           |
|          | 3.40 pm | 30.8  | 32.5  | 1.7  |           |
| 19.09.17 | 8.40 am | 30.5  | 32.25 | 1.75 |           |
|          | 3.40 pm | 30.25 | 31.75 | 1.5  |           |
| 20.09.17 | 9.40 am | 30.4  | 32    | 1.6  |           |
|          | 3.30 pm | 31.1  | 32.75 | 1.65 |           |
| 21.09.17 | 8.40 am | 31.15 | 32.88 | 1.73 |           |
|          | 3.40 pm | 30.88 | 32    | 1.12 |           |
| 22.09.17 | 9.00 am | 31.3  | 32.6  | 1.3  |           |
|          | 3.30 pm | 31    | 32.5  | 1.5  |           |



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|          |         |       |       |      |  |
|----------|---------|-------|-------|------|--|
| 23.09.17 | 8.40 am | 31.25 | 32.75 | 1.5  |  |
|          | 3.40 pm | 30.8  | 33    | 2.2  |  |
| 24.09.17 | 9.00 am | 31    | 32.8  | 1.8  |  |
|          | 3.30 pm | 30.5  | 32.25 | 1.75 |  |
| 25.09.17 | 9.00 am | 30.88 | 32.75 | 1.87 |  |
|          | 3.40 pm | 30.75 | 32.5  | 1.75 |  |
| 26.09.17 | 8.40 am | 31.25 | 32.85 | 1.6  |  |
|          | 3.40 pm | 31    | 33.2  | 2.2  |  |
| 27.09.17 | 9.00 am | 30.8  | 33    | 2.2  |  |
|          | 3.30 pm | 31.2  | 33.25 | 2.05 |  |
| 28.09.17 | 8.40 am | 31.5  | 33.25 | 1.75 |  |
|          | 3.40 pm | 31.2  | 33.5  | 2.3  |  |
| 29.09.17 | 9.00 am | 31.3  | 33.45 | 2.15 |  |
|          | 3.40 pm | 31    | 33.25 | 2.25 |  |
| 30.09.17 | 8.40 am | 31.15 | 33.2  | 2.05 |  |
|          | 3.30 pm | 31.25 | 33.65 | 2.4  |  |

Oct'17

| Date     | Time    | River Water Inlet temp | River water outlet temp | Temp Diff |  | Remarks |
|----------|---------|------------------------|-------------------------|-----------|--|---------|
| 01.10.17 | 9.0 am  | 31                     | 33.5                    | 2.5       |  |         |
|          | 4.30 pm | 31.5                   | 33.75                   | 2.25      |  |         |
| 02.10.17 | 8.45 am | 31.25                  | 33.5                    | 2.25      |  |         |
|          | 4.0 pm  | 32                     | 33.75                   | 1.75      |  |         |
| 03.10.17 | 9.15 am | 32                     | 34                      | 2         |  |         |
|          | 3.30 pm | 33                     | 34.2                    | 1.2       |  |         |
| 04.10.17 | 9.0 am  | 32                     | 33.75                   | 1.75      |  |         |
|          | 3.30 pm | 32.65                  | 34                      | 1.35      |  |         |
| 05.10.17 | 9.30 am | 32.5                   | 34.25                   | 1.75      |  |         |
|          | 3.0 pm  | 32.66                  | 34                      | 1.34      |  |         |
| 06.10.17 | 9.0 am  | 32.78                  | 34.25                   | 1.47      |  |         |
|          | 4.0 pm  | 32.8                   | 34.15                   | 1.35      |  |         |
| 07.10.17 | 8.45 am | 32.55                  | 33.85                   | 1.3       |  |         |
|          | 3.30 pm | 32.78                  | 33.8                    | 1.02      |  |         |
| 08.10.17 | 9.0 am  | 31.75                  | 33.5                    | 1.75      |  |         |
|          | 4.0 pm  | 31.98                  | 34                      | 2.02      |  |         |
| 09.10.17 | 9.30 am | 32.15                  | 33.75                   | 1.6       |  |         |
|          | 3.30 pm | 31.85                  | 33                      | 1.15      |  |         |
| 10.10.17 | 8.45 am | 31.88                  | 33.25                   | 1.37      |  |         |
|          | 3.30 pm | 31.78                  | 33.5                    | 1.72      |  |         |
| 11.10.17 | 9.0 am  | 31.77                  | 33.25                   | 1.48      |  |         |
|          | 4.0 pm  | 31.96                  | 33.85                   | 1.89      |  |         |



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|          |         |       |       |      |           |
|----------|---------|-------|-------|------|-----------|
| 12.10.17 | 9.30 am | 31.68 | 34    | 2.32 |           |
|          | 3.30 pm | 31.55 | 33.75 | 2.2  |           |
| 13.10.17 | 9.30 am | 31.82 | 33.75 | 1.93 |           |
|          | 3.30 pm | 31.9  | 34    | 2.1  |           |
| 14.10.17 | 9.0 am  | 31.88 | 33.75 | 1.87 |           |
|          | 4.0 pm  | 32    | 34.25 | 2.25 |           |
| 15.10.17 | 8.45 am | 31.74 | 33.75 | 2.01 |           |
|          | 3.30 pm | 32.22 | 34.5  | 2.28 |           |
| 16.10.17 | 9.30 am | 32.15 | 34.25 | 2.1  |           |
|          | 3.30 pm | 32.2  | 34.5  | 2.3  |           |
| 17.10.17 | 9.0 am  | 31.98 | 34    | 2.02 |           |
|          | 4.0 pm  | 32.2  | 34.3  | 2.1  |           |
| 18.10.17 | 9.30 am | 32.24 | 34.5  | 2.26 |           |
|          | 3.30 pm | 32.2  | 34    | 1.8  |           |
| 19.10.17 | 9.30 am | 31.9  | 34.25 | 2.35 |           |
|          | 3.30 pm |       |       | 0    | Shut down |
| 20.10.17 | 9.30 am |       |       | 0    | Shut down |
|          | 3.30 pm |       |       | 0    | Shut down |
| 21.10.17 | 9.30 am |       |       | 0    | Shut down |
|          | 3.30 pm |       |       | 0    | Shut down |
| 22.10.17 | 9.0 am  |       |       | 0    | Shut down |
|          | 3.45 pm | 30.06 | 32.5  | 2.44 |           |
| 23.10.17 | 8.45 am | 30.25 | 32.75 | 2.5  |           |
|          | 3.30 pm | 30.52 | 33    | 2.48 |           |
| 24.10.17 | 9.30 am | 30.65 | 32.6  | 1.95 |           |
|          | 3.30 pm | 30.85 | 32.75 | 1.9  |           |
| 25.10.17 | 8.45 am | 30.66 | 32.75 | 2.09 |           |
|          | 3.30 pm | 30.8  | 33    | 2.2  |           |
| 26.10.17 | 9.30 am | 30.4  | 32.25 | 1.85 |           |
|          | 4.0 pm  | 30.25 | 32.5  | 2.25 |           |
| 27.10.17 | 9.30 am | 30.7  | 32.75 | 2.05 |           |
|          | 3.30 pm | 30.4  | 33    | 2.6  |           |
| 28.10.17 | 9.0 am  | 30.5  | 32.5  | 2    |           |
|          | 3.30 pm | 30.2  | 32.25 | 2.05 |           |
| 29.10.17 | 8.45 am | 30.8  | 32.75 | 1.95 |           |
|          | 3.30 pm | 30.62 | 32.8  | 2.18 |           |
| 30.10.17 | 8.45 am | 30.56 | 32.78 | 2.22 |           |
|          | 4.0 pm  | 31.88 | 33    | 1.12 |           |
| 31.10.17 | 9.0 am  |       |       | 0    | Shut down |
|          | 3.30 pm |       |       | 0    | Shut down |

Nov'17

| Date | Time | River | River water | Temp Diff | Remarks |
|------|------|-------|-------------|-----------|---------|
|------|------|-------|-------------|-----------|---------|

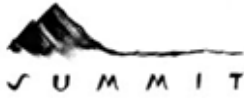




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|          |  | <b>Water<br/>Inlet temp</b> | <b>outlet temp</b> |  |  |          |
|----------|--|-----------------------------|--------------------|--|--|----------|
| 01.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 02.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 03.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 04.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 05.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 06.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 07.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 08.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 09.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 10.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 11.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 12.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 13.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 14.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 15.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 16.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 17.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 18.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 19.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 20.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 21.11.17 |  |                             |                    |  |  | Shutdown |
|          |  |                             |                    |  |  | Shutdown |
| 22.11.17 |  |                             |                    |  |  | Shutdown |



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|          |  |  |  |  |  |          |
|----------|--|--|--|--|--|----------|
|          |  |  |  |  |  | Shutdown |
| 23.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |
| 24.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |
| 25.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |
| 26.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |
| 27.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |
| 28.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |
| 29.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |
| 30.11.17 |  |  |  |  |  | Shutdown |
|          |  |  |  |  |  | Shutdown |

Dec'17

| Date     | Time | River Water Inlet temp | River water outlet temp | Temp Diff | Remarks  |
|----------|------|------------------------|-------------------------|-----------|----------|
| 01.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 02.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 03.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 04.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 05.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 06.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 07.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 08.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 09.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 10.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |
| 11.12.17 |      |                        |                         |           | Shutdown |
|          |      |                        |                         |           | Shutdown |



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|          |  |  |  |  |          |
|----------|--|--|--|--|----------|
| 12.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 13.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 14.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 15.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 16.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 17.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 18.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 19.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 20.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 21.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 22.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 23.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 24.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 25.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 26.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 27.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 28.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 29.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 30.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |
| 31.12.17 |  |  |  |  | Shutdown |
|          |  |  |  |  | Shutdown |



### 10.8 Annexure-8 Noise Monitoring Record

#### Noise Monitoring Record

| S/N | Summit Meghnaghat Power Company Limited | ShutDown  |     | ShutDown  |      | ShutDown  |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | ShutDown  |     | ShutDown  |      |       |
|-----|---|-----------|-----|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|-----|-----------|------|-------|
|     | Nearby 450 MW Old Plan                  | Running   |     | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |      | Running   |     | Running   |      |       |
|     | Day                                     | Night     | Day | Night     | Day  | Night     | Day  | Night     | Day  | Night     | Day  | Night     | Day  | Night     | Day  | Night     | Day  | Night     | Day  | Night     | Day  | Night     | Day | Night     | Day  | Night |
|     | IFC Limit Value ( Residential)          | 55        | 45  | 55        | 45   | 55        | 45   | 55        | 45   | 55        | 45   | 55        | 45   | 55        | 45   | 55        | 45   | 55        | 45   | 55        | 45   | 55        | 45  | 55        | 45   |       |
|     | DOE Limit Value (Mixed Zone)            | 60        | 50  | 60        | 50   | 60        | 50   | 60        | 50   | 60        | 50   | 60        | 50   | 60        | 50   | 60        | 50   | 60        | 50   | 60        | 50   | 60        | 50  | 60        | 50   |       |
|     | DDE Limit Value (Residential)           | 50        | 40  | 50        | 40   | 50        | 40   | 50        | 40   | 50        | 40   | 50        | 40   | 50        | 40   | 50        | 40   | 50        | 40   | 50        | 40   | 50        | 40  | 50        | 40   |       |
|     | Date of Record                          | 22-Jan-17 |     | 22-Feb-17 |      | 27-Mar-17 |      | 29-Apr-17 |      | 27-May-17 |      | 24-Jun-17 |      | 21-Jul-17 |      | 17-Aug-17 |      | 30-Sep-17 |      | 18-Oct-17 |      | 19-Nov-17 |     | 24-Dec-17 |      |       |
| 1   | Dudghata Village                        | 40        | 38  | 40        | 39   | 41.6      | 40   | 42.8      | 40.2 | 40.9      | 38.5 | 41.6      | 39.8 | 41.8      | 40   | 43.6      | 41.5 | 44.6      | 42.8 | 45        | 44.7 | 44        | 43  | 45        | 44.5 |       |
| 3   | Ganga Nagar Village (Mixed Zone)        | 48        | 41  | 47.7      | 40.8 | 48.1      | 41.8 | 49.7      | 41   | 46.6      | 40   | 47        | 41   | 48        | 41.5 | 52        | 44.4 | 53.4      | 45   | 53.8      | 46   | 51.5      | 47  | 49        | 47.5 |       |



Summit Meghnaghat Power Company Limited  
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1<sup>st</sup> January – 31<sup>st</sup> December 2017



| S/N                                     | Shutdown  |       | Shutdown  |       | Shutdown  |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Shutdown  |       | Shutdown  |       |
|---|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
|   | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night | Day       | Night |
| Summit Meghnaghat Power Company Limited | Shutdown  |       | Shutdown  |       | Shutdown  |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Shutdown  |       | Shutdown  |       |
| Nearby 450 MW Old Plan                  | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       | Running   |       |
| IFC Limit Value (Industrial)            | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    | 70        | 70    |
| DOE Limit Value (Industrial)            | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    | 75        | 70    |
| Date of Record                          | 21-Jan-17 |       | 21-Feb-17 |       | 26-Mar-17 |       | 30-Apr-17 |       | 25-May-17 |       | 18-Jun-17 |       | 19-Jul-17 |       | 16-Aug-17 |       | 30-Sep-17 |       | 18-Oct-17 |       | 20-Nov-17 |       | 23-Dec-17 |       |
| 1 North - East ( Boundary 01)           | 48        | 47.4  | 49.6      | 48.3  | 50        | 48.8  | 52.6      | 51.8  | 51.8      | 50.5  | 52        | 51    | 52.8      | 51.2  | 54.4      | 53.3  | 55        | 54.5  | 56.5      | 55.3  | 52.6      | 52    | 53.5      | 52.8  |
| 2 North - East ( Boundary 02)           | 51        | 50.4  | 52.6      | 51.5  | 52.8      | 50.5  | 53.6      | 52.8  | 53        | 52    | 53.8      | 52.6  | 54        | 52.8  | 56.8      | 54.2  | 56.6      | 55    | 57.2      | 56.2  | 54.4      | 54    | 54.8      | 54.2  |
| 3 South - East                          | 60.5      | 59.8  | 58        | 57.6  | 58.4      | 58    | 59.6      | 58.7  | 59        | 58.3  | 59.7      | 58.6  | 59.8      | 58.7  | 61.8      | 60.2  | 60.8      | 59.9  | 61        | 60.2  | 60.8      | 59.8  | 61        | 60.2  |
| 4 South Boundary 01                     | 46        | 45    | 47        | 46.2  | 48        | 46.8  | 49        | 48.4  | 49.6      | 48.5  | 50.4      | 49    | 50.7      | 49.2  | 52.8      | 51.2  | 53        | 52.5  | 53.8      | 52.5  | 50        | 48.8  | 50.6      | 50    |
| 5 South Boundary 02                     | 44.7      | 44.1  | 45        | 44.8  | 45.5      | 45    | 48.6      | 47.7  | 49.2      | 47    | 50        | 47.4  | 49.6      | 47.7  | 51.8      | 49.8  | 51.6      | 50.5  | 50.6      | 49.5  | 45.8      | 44.8  | 46.6      | 45.8  |
| 6 South - West Boundary                 | 40        | 38    | 41.6      | 40    | 42        | 40.8  | 57.7      | 56.6  | 57.2      | 56.5  | 58.1      | 57    | 58.8      | 57.5  | 61.6      | 59.8  | 62        | 60.5  | 61.5      | 60.3  | 45.5      | 44.6  | 46        | 45.5  |
| 7 North - west Boundary                 | 39.6      | 38.8  | 40.1      | 39    | 40.6      | 39.2  | 59.6      | 58    | 59.6      | 58.5  | 60        | 59    | 60.6      | 59.5  | 61.8      | 60.8  | 61        | 60.5  | 60.6      | 59.8  | 45.5      | 44.7  | 46.6      | 45.8  |

Noise exposure evolution and workplace noise monitoring

| S/N | Name of the Equipments   | unit | Measured Values |           |           |           | Average, Lpa  |       |
|-----|--------------------------|------|-----------------|-----------|-----------|-----------|---------------|-------|
|     |                          |      | Sampling1       | Sampling2 | Sampling3 | Sampling4 |               |       |
| 1   | Condensing water pump    | dBA  | 95.8            | 93.6      | 92.8      | 94.8      | 2,754,543,514 | 94.40 |
| 2   | Vacuum Pump              | dBA  | 92.9            | 93.4      | 92.8      | 93.6      | 2,083,483,649 | 93.19 |
| 3   | Closed Cooling Water P/P | dBA  | 93.9            | 94.6      | 95.7      | 93.5      | 2,823,203,462 | 94.51 |
| 4   | HRSG A                   | dBA  | 79.9            | 79.8      | 78.8      | 81.7      | 104,247,894   | 80.18 |
| 5   | HRSG B                   | dBA  | 80.9            | 76.7      | 79.2      | 84.8      | 138,742,985   | 81.42 |
| 6   | HP Feed Water Pump A     | dBA  | 79.7            | 85.4      | 90.8      | 85        | 489,638,620   | 86.90 |
| 7   | HP Feed Water Pump B     | dBA  | 82              | 86.6      | 86.9      | 85        | 355,396,024   | 85.51 |



|    |                      |     |      |      |      |      |               |       |
|----|----------------------|-----|------|------|------|------|---------------|-------|
| 8  | LP Feed Water Pump A | dBA | 86   | 85   | 84.2 | 83.8 | 304,311,257   | 84.83 |
| 9  | LP Feed Water Pump B | dBA | 85.9 | 85.8 | 84.6 | 83.9 | 325,777,146   | 85.13 |
| 10 | Cooling Water Pump A | dBA | 86   | 86.8 | 85.5 | 83.9 | 369,255,386   | 85.67 |
| 11 | Cooling Water Pump B | dBA | 85.8 | 86.9 | 85   | 84   | 359,346,156   | 85.56 |
| 12 | Raw Water Pump A     | dBA | 86.5 | 86   | 87.9 | 85.9 | 462,607,727   | 86.65 |
| 13 | Air Compressor A     | dBA | 83   | 84.6 | 82.9 | 84   | 233,525,621   | 83.68 |
| 14 | Air Compressor B     | dBA | 83.7 | 83.9 | 84   | 83.7 | 241,376,324   | 83.83 |
| 15 | Steam Turbine        | dBA | 97.4 | 97.6 | 94.3 | 94.9 | 4,257,909,587 | 96.29 |
| 16 | Gas Turbine          | dBA | 83.6 | 83.7 | 83.4 | 83.8 | 230,542,275   | 83.63 |
|    | Total Dose           |     |      |      |      |      |               |       |

| S/N | Name of the Equipments    | Exposure in each round | PB Engineer                                    | BOP Engineer                                   |
|-----|---------------------------|------------------------|--|--|
|     |                           |                        | Expousure Time in each shift of concern person | Expousure Time in each shift of concern person |
|     |                           |                        | Minutes  | Minutes  |
| 1   | Condensing water pump     | 10 x 2                 | 20   |  |
| 2   | Vaccum Pump               | 10 x 2                 | 20   |  |
| 3   | Closed Cooling Water Pump | 15 x 2                 |  | 30   |
| 4   | HRSG A                    | 20 x 2                 | 40   |  |
| 5   | HRSG B                    | 20 x 2                 | 40   |  |
| 6   | HP Feed Water Pump A      | 10 x 2                 | 20   |  |
| 7   | HP Feed Water Pump B      | 10 x 2                 | 20   |  |
| 8   | LP Feed Water Pump A      | 10 x 2                 | 20   |  |
| 9   | LP Feed Water Pump B      | 10 x 2                 | 20   |  |
| 10  | Cooling Water Pump A      | 15 x 2                 |  | 30   |
| 11  | Cooling Water Pump B      | 15 x 2                 |  | 30   |
| 12  | Raw Water Pump A          | 15 x 2                 |  | 30   |
| 13  | Air Compressor A          | 15 x 2                 |  | 30   |
| 14  | Air Compressor B          | 15 x 2                 |  | 30   |
| 15  | Steam Turbine             | 15 x 2                 | 30   |  |
| 16  | Gas Turbine               | 15 x 2                 | 30   |  |

### 10.9 Annexure-9Waste generation & disposal Record

Waste Management Record (Generation)



Summit Meghnaghat Power Company Limited  
Annual Public Environmental & Social  
Monitoring Report  
1<sup>st</sup> January – 31<sup>st</sup> December 2017



|   |           |              |                     |                |                      |               |             |         |                               |         |               |                            | Document No: SMPCL-EHS-F-039 |         |
|---|-----------|--------------|---------------------|----------------|----------------------|---------------|-------------|---------|-------------------------------|---------|---------------|----------------------------|------------------------------|---------|
| SUMMIT MEGHNAGHAT POWER COMPANY LTD.              |           |              |                     |                |                      |               |             |         |                               |         |               |                            | Revision No: 00              |         |
| TITLE: WASTE GENERATION & DISPOSAL RECORD         |           |              |                     |                |                      |               |             |         |                               |         |               |                            | Effective Date: 10 Jan 16    |         |
| Amount of waste Generated in Operation Phase 2017 |           |              |                     |                |                      |               |             |         |                               |         |               |                            | Page 1 of 2                  |         |
|   |           | Paper (Drum) | Intake waste (Drum) | plastic (Drum) | Kitchen waste (Drum) | Mud Cake (kg) | Sludge (Kg) | Remarks | Syringe/Medicine/ bandage etc | Remarks | Used Oil/Fuel | Air/Oil/Fuel Filters (pcs) | Fuel/Oil soaked Cloth (Kg)   | Remarks |
| 1   | January   | 2            | 0                   | 0              | 75                   | nil           | nil         |         | nil                           |         | nil           | nil                        | nil                          |         |
| 2   | February  | 3            | 0                   | 0              | 68                   | nil           | nil         |         | nil                           |         | nil           | nil                        | nil                          |         |
| 3   | March     | 2            | 0                   | 0              | 73                   | 4,361         | nil         |         | nil                           |         | nil           | nil                        | nil                          |         |
| 4   | April     | 3            | 0                   | 0              | 75                   | 265           | nil         |         | nil                           |         | nil           | nil                        | nil                          |         |
| 5   | May       | 2            | 0                   | 0              | 52                   | nil           | nil         |         | nil                           |         | nil           | nil                        | nil                          |         |
| 6   | June      | 2            | 0                   | 0              | 65                   | nil           | nil         |         | nil                           |         | nil           | nil                        | nil                          |         |
| 7   | July      | 4            | 0                   | 0              | 85                   | nil           | nil         |         | nil                           |         | nil           | 348 (Used Air Filters)     | nil                          |         |
| 8   | August    | 6            | 0                   | 0              | 90                   | nil           | nil         |         | nil                           |         | nil           | Nil                        | nil                          |         |
| 9   | September | 1            | 0                   | 0              | 76                   | nil           | nil         |         | nil                           |         | nil           | Nil                        | nil                          |         |
| 10  | October   | 5            | 0                   | 0              | 127                  | nil           | nil         |         | nil                           |         | nil           | nil                        | 50                           |         |
| 11  | November  | 2            | 0                   | 0              | 62                   | nil           | nil         |         | nil                           |         | nil           | 360 (Used air filters)     | Nil                          |         |
| 12  | December  | 2            | 0                   | 0              | 70                   | nil           | nil         |         | nil                           |         | nil           | nil                        | nil                          |         |

Waste Management Record (Disposal)

|  |           |              |                     |                |                      |               |             |                                      |                               |         |               |                            | Document No: SMPCL-EHS-F-039 |  |
|--|-----------|--------------|---------------------|----------------|----------------------|---------------|-------------|--------------------------------------|-------------------------------|---------|---------------|----------------------------|------------------------------|--|
| SUMMIT MEGHNAGHAT POWER COMPANY LTD.             |           |              |                     |                |                      |               |             |                                      |                               |         |               |                            | Revision No: 00              |  |
| TITLE: WASTE GENERATION & DISPOSAL RECORD        |           |              |                     |                |                      |               |             |                                      |                               |         |               |                            | Effective Date: 10 Jan 16    |  |
| Amount of waste Disposal in Operation Phase 2017 |           |              |                     |                |                      |               |             |                                      |                               |         |               |                            | Page 2 of 2                  |  |
|  |           | Paper (Drum) | Intake waste (Drum) | plastic (Drum) | Kitchen waste (Drum) | Mud Cake (Kg) | Sludge (kg) | Remarks                              | Syringe/Medicine/ bandage etc | Remarks | Used Oil/Fuel | Filters-Air/Oil/Fuel (pcs) | Liquid soaked Cloth (kg)     | Remarks                                |
| 1  | January   | 2            | nil                 | nil            | 75                   | nil           | nil         | Disposed to Tania Ent.               | nil                           |         | nil           | nil                        | nil                          |  |
| 2  | February  | 3            | 0                   | 0              | 68                   | nil           | nil         | Disposed to Tania Ent.               | nil                           |         | nil           | nil                        | nil                          |  |
| 3  | March     | 2            | 0                   | 0              | 73                   | 4,361         | nil         | Mud Cake has been used as fertilizer | nil                           |         | nil           | nil                        | nil                          |  |
| 4  | April     | 3            | 0                   | 0              | 75                   | 265           | nil         | Mud Cake has been used as fertilizer | nil                           |         | nil           | nil                        | nil                          |  |
| 5  | May       | 2            | 0                   | 0              | 52                   | nil           | nil         | Disposed to Tania Ent.               | nil                           |         | nil           | nil                        | nil                          |  |
| 6  | June      | 2            | 0                   | 0              | 65                   | nil           | nil         | Disposed by Tania Ent.               | nil                           |         | nil           | nil                        | nil                          |  |
| 7  | July      | 4            | 0                   | 0              | 85                   | nil           | nil         | Disposed by Tania Ent.               | nil                           |         | nil           | 348 (Air Filters)          | nil                          | Disposed By Meghna Ent.                |
| 8  | August    | 6            | 0                   | 0              | 90                   | nil           | nil         | Disposed by Tania Ent.               | nil                           |         | nil           | nil                        | nil                          |  |
| 9  | September | 1            | 0                   | 0              | 76                   | nil           | nil         | Disposed by Tania Ent.               | nil                           |         | nil           | Nil                        | nil                          |  |
| 10   | October   | 5            | 0                   | 0              | 127                  | nil           | nil         | Disposed by Tania Ent.               | nil                           |         | nil           | nil                        | 50                           | Disposed to yar Ent through Tania Ent. |
| 11   | November  | 2            | 0                   | 0              | 62                   | nil           | nil         | Disposed by Tania Ent.               | nil                           |         | nil           | 360 (Used air filters)     | Nil                          | Disposed by Tania Ent.                 |
| 12   | December  | 2            | 0                   | 0              | 70                   | nil           | nil         | Disposed by Tania Ent.               | nil                           |         | nil           | nil                        | nil                          |  |



**10.10 Annexure-10 Mock Drill Practices**

|   |  |                              |
|---|--|------------------------------|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |  | Document No: SMPCL-EHS-F-003 |
|   |  | Revision No.: 00             |
|   |  | Effective Date: 10 Jan 16    |
| <b>TITLE: MOCK DRILL REPORT</b>                 |  | Page 1 of 3                  |

**Date: 26.02.2017**

## Fire mock drill

### Description of Emergency Scenario

|  |
|--|
| 11:57 hrs: Mr. Bissajit (PBE) of KPS informed to control room that there was fire generated near the NG station.   |
| 11:58 hrs: As per section no. 2.4.2.1 of SMPCL-EHS-004 procedure. Emergency siren was activated & Emergency situation was declared by Incident commander and announced by emergency coordinator via PA system & walkie-talkie. |
| 12:03 hrs: As per section 2.2.5 of SMPCL-EHS-004 procedure, after reporting all employees at designated assembly point head count was done by assembly point coordinator and informed to emergency coordinator.                |
| 12:05 hrs: As per section no. 2.4.3 of SMPCL-EHS-004 procedure, Emergency coordinator checked the number of person with the last updated entry and exit record & found no person was missing                                   |
| 12:06:40 hrs: As per section no. 2.2.7 of SMPCL-EHS-004 procedure, Emergency response team rush to the affected area as per Incident commander's instruction.  |
| 12:15 hrs: According to section 3.3 of SMPCL-EHS-004 procedure, Emergency response team extinguished fire by using hydrant water from the nearest point.   |
| 12:15 hrs: Final Head count of all assembly points was done & informed to incident commander that no person was found missing.   |
| 12:17 hrs: Emergency withdrawn by PA system & walkie-talkie after confirming everything was normal.  |

|                      |                                    |
|----------------------|------------------------------------|
| <b>Incident Area</b> | <b>Waste water treatment plant</b> |
| <b>Date and Time</b> | <b>26 -Feb-2017      11:57 pm.</b> |

### Number of people counted in the assembly points

|  | Total People inside Plant             | Assembly Point -1 | Assembly Point -2 | Assembly Point -3                   | Assembly Point -4 | Total     | Number of Person Missing |
|--|---------------------------------------|-------------------|-------------------|-------------------------------------|-------------------|-----------|--------------------------|
| Plant Person                           | 55                                    | 02                | 28                | 13                                  | 12                | 55        | 00                       |
| EPC                                    | 00                                    | 00                | 00                | 00                                  | 00                | 00        | 00                       |
| Security                               | 16                                    | 00                | 01                | 12                                  | 03                | 16        | 00                       |
| Driver                                 | 04                                    | 00                | 00                | 04                                  | 00                | 04        | 00                       |
| Subcontractor labor                    | 18                                    | 00                | 10                | 06                                  | 02                | 18        | 00                       |
| <b>Total</b>                           | <b>93</b>                             | <b>02</b>         | <b>39</b>         | <b>35</b>                           | <b>17</b>         | <b>93</b> | <b>00</b>                |
| <b>First Man Reporting Time</b>        |                                       | 11: 58 hrs        | 11:59:40 hrs      | 12: 01:4 hrs                        | 12:01:09 hrs      |           |                          |
| <b>Last Man Reporting Time</b>         |                                       | 11:59:15 hrs      | 12:02:20 hrs      | 12:02:11 hrs                        | 12:03:00 hrs      |           |                          |
| <b>Point person of Assembly Points</b> | <b>Assembly Point-1: Mr. Mahmudul</b> |                   |                   | <b>Assembly Point-3: Mr. Moktar</b> |                   |           |                          |





|   |  |                              |
|---|--|------------------------------|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |  | Document No: SMPCL-EHS-F-003 |
|   |  | Revision No.: 00             |
| TITLE: MOCK DRILL REPORT                        |  | Effective Date: 10 Jan 16    |
|   |  | Page 2 of 3                  |

**Date: 26.02.2017**

| Assembly Point-2 – Mr. Shabuddin   |           | Assembly Point –4 Mr. Rafique         |                      |
|--|-----------|---------------------------------------|----------------------|
| Search & Rescue Team Member's Name   |           | Emergency Response Team Member's Name |                      |
| Name   | Dept      | Name                                  | Dept                 |
|  |           | Mr. Bissojit                          | OPERATION            |
|  |           | Mr. Mostofa Pasa                      | I&C                  |
|  |           | Mr. Nur Islam                         | I&C                  |
|  |           | Mr. Ashik                             | MMD                  |
|  |           | Mr. Opu                               | EMD                  |
| Description of Emergency Response Team Activities  |           |                                       |                      |
| <p>Fire was initiated in a drum with combustible material as per plan, after receiving fire incident information, incident commander declared emergency situation. In the assembly point all KPS staff, security, drivers &amp; contractors labors reached immediately after getting the emergency declaration. Head count was done and found no persons were missing. Emergency response team rushed to the affected spot as per the incident commander's instruction. After successfully extinguished fire in that area, it was informed to the incident commander that the situation was under control. Finally again head count carried out and found okay. The mock drill was carried out for about 20 minutes. Finally, a meeting was held jointly after completion of the drill about the observation of the drill.</p> |           |                                       |                      |
| End Time   | 12:17 hrs |                                       |                      |
| Observation:   |           |                                       |                      |
| <ul style="list-style-type: none"> <li>• <b>Communication:</b> Emergency situation was declared via PA system &amp; walkie-talkie.</li> <li>• <b>Medical and Handling of injured person:</b> All employees were found safe. No injury occurred during drill.</li> <li>• Finally, a meeting was held after completion of the drill about the observation of the drill.</li> <li>• <b>Areas of Improvement:</b> <ol style="list-style-type: none"> <li>1) Passenger lift should not use during emergency.</li> </ol> </li> </ul>   |           |                                       |                      |
| Group #  | B         | SCE Name                              | Mr. SHABUDDIN BISSAS |
| Emergency Response Coordinator Name  |           | Mr. MAHMUDUL HASAN                    |                      |

|   |  |                              |
|---|--|------------------------------|
| <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. | <br>S U M M I T | Document No: SMPCL-EHS-F-003 |
|   |  | Revision No.: 00             |
| TITLE: MOCK DRILL REPORT  |  | Effective Date: 10 Jan 16    |
|   |  | Page 3 of 3                  |

Date: 26.02.2017

### Pictures of the Drill





|   |  |                              |
|---|--|------------------------------|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |  | Document No: SMPCL-EHS-F-003 |
|   |  | Revision No.: 00             |
|   |  | Effective Date: 10 Jan 16    |
| <b>TITLE: MOCK DRILL REPORT</b>                 |  | Page 1 of 3                  |

DATE:06-04-2017

### Chlorine leakage Mock Drill Report

#### Description of Emergency Scenario

21:35 hrs Mr. Khairul informed CCR that chlorine leak alarm appeared at water intake chlorination system.

21:36 hrs As per section no. 2.4.2.1 of SMPCL-EHS-004 procedure. Emergency siren was activated & Emergency situation was declared by Incident commander and announced by emergency coordinator via PA system & walkie-talkie.

21:39 hrs As per section 2.2.5 of SMPCL-EHS-004 procedure, after reporting all employees at designated assembly point head count was done by assembly point coordinator and informed to emergency coordinator.

21:40 hrs As per section no. 2.4.3 of SMPCL-EHS-004 procedure, Emergency coordinator checked the number of person with the last updated entry and exit record & found no person was missing. Checked wind direction.

21:40:30 hrs As per section no. 2.2.7 of SMPCL-EHS-004 procedure, Emergency response team rush to the affected area as per Incident commander's instruction. from assembly point-3 Emergency response team (Mr.Momin & Khirul) worn SCBA and went into the chlorination cylinder room and identified and rectified leakage point.

21:49 hrs Final Head count of all assembly points was done & informed to incident commander that no person was found missing.

21:51 hrs Emergency withdrawn by PA system & walkie-talkie after confirming everything was normal.

|               |                          |
|---------------|--------------------------|
| Incident Area | <b>Chlorine building</b> |
| Date and Time | 6/4/2017 at 21:35 hrs.   |

#### Number of people counted in the assembly points

|                                      | Total People inside Plant | Assembly Point -1 | Assembly Point -2 | Assembly Point -3 | Assembly Point -4 | Total     | Number of Person Missing |
|--------------------------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|-----------|--------------------------|
| Plant Person (KPS & Summit employee) |                           | 01                | 00                | 04                | 00                | 05        | 00                       |
| Contractor                           |                           | 00                | 00                | 01                | 00                | 01        | 00                       |
| Security                             |                           | 00                | 00                | 21                | 05                | 26        | 00                       |
| Driver                               |                           | 00                | 00                | 00                | 00                | 00        | 00                       |
| EPC/labor                            |                           | 00                | 00                | 00                | 00                | 00        | 00                       |
| <b>Total</b>                         |                           | <b>01</b>         | <b>00</b>         | <b>26</b>         | <b>05</b>         | <b>32</b> | <b>00</b>                |

|                                 |                   |  |              |                   |  |
|---------------------------------|-------------------|--|--------------|-------------------|--|
| First Man Reporting Time        | 21: 36:00 hrs     |  | 21:37:22 hrs | 21:37:16 hrs      |  |
| Last Man Reporting Time         | 21:37:15 hrs      |  | 21:38:40 hrs | 21:38:40 hrs      |  |
| Point person of Assembly Points | Assembly Points-1 |  |              | Assembly Points-2 |  |
|                                 | Assembly Points-3 |  |              | Assembly Points-4 |  |



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| Search & Rescue Team Member's Name   |            | Emergency Response Team Member's Name |                      |
|--|------------|---------------------------------------|----------------------|
| Name   | Dept       | Name                                  | Dept                 |
|  |            | Mr. Momin                             | OPN                  |
|  |            | Mr. Khairul                           | OPN                  |
| <b>Description of Emergency Response Team Activities</b>   |            |                                       |                      |
| <p>During the emergency situation wind direction was north to west. All the plant personnel were gathered up wind side assembly point-3 &amp; 4 after seeing the wind sock direction. After head count the emergency response team immediately put on SCBA and rush to the affected area as per incident command instruction. They ensured the situation was under control. Preparation was taken to inform Local ambulance service provider &amp; Fire service and civil defense about the mock drill. Finally again head count was done and found no person was missing. Total 16 minutes were consumed to complete the drill.</p> |            |                                       |                      |
| <b>End Time</b>  | 21:51 hrs. |                                       |                      |
| <b>Observation:</b>  |            |                                       |                      |
| <ul style="list-style-type: none"> <li>• <b>Communication:</b> Emergency situation was declared via PA system &amp; walkie-talkie.</li> <li>• <b>Medical and Handling of injured person:</b> All employees were found safe. No injury occurred during drill.</li> <li>• Finally, a meeting was held after completion of the drill about the observation of the drill.</li> <li>• <b>Areas of Improvement:</b><br/>Dormitory peoples should be included to attend the night time drill.</li> </ul>  |            |                                       |                      |
| <b>Group #</b>   | B          | <b>SCE Name</b>                       | Md. Mushfuqur Rahman |
| <b>Emergency Response Coordinator Name</b>   |            |                                       |                      |



|  |  |                              |
|--|--|------------------------------|
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Date: 14.07.2017

## Oil Spill Response Drill

### Description of Emergency Scenario

|  |                                      |                   |                   |                                       |                   |           |                          |
|--|--------------------------------------|-------------------|-------------------|---------------------------------------|-------------------|-----------|--------------------------|
| 01:30 hrs: Mr. Nur (Field Supervisor) informed oil spillage starts from jetty hose connection joint leak   |                                      |                   |                   |                                       |                   |           |                          |
| 01:33 hrs: After checking the affected area. As per section no. 2.4.2.1 of SMPCL-EHS-004 procedure. Emergency siren was activated & Emergency situation was declared by Incident commander and announced by emergency coordinator via PA system & walkie-talkie. |                                      |                   |                   |                                       |                   |           |                          |
| 01:35 hrs: As per section 2.2.5 of SMPCL-EHS-004 procedure, after reporting all employees at designated assembly point head count was done by assembly point coordinator and informed to emergency coordinator.  |                                      |                   |                   |                                       |                   |           |                          |
| 01:37 hrs: As per section no. 2.4.3 of SMPCL-EHS-004 procedure, Emergency coordinator checked the number of person with the last updated entry and exit record & found no person was missing.  |                                      |                   |                   |                                       |                   |           |                          |
| 01:39 hrs: Emergency response team with security personnel mobilized as per Incident commander's instruction.  |                                      |                   |                   |                                       |                   |           |                          |
| 01:43 hrs: Spillage control done by a) Closing v/v b) Spillage oil collected in buckets and after it was dumped into the LDO Oil drain sump. c) Used oil dispersant to neutralize.   |                                      |                   |                   |                                       |                   |           |                          |
| 01:45 hrs: Final Head count was done.  |                                      |                   |                   |                                       |                   |           |                          |
| 01:46 hrs Emergency withdrawn by PA system after confirming everything was normal.   |                                      |                   |                   |                                       |                   |           |                          |
| 2:30 hrs After the drill complete the oil boom condition has been checked by EHS committee members   |                                      |                   |                   |                                       |                   |           |                          |
| Incident Area  | Jetty                                |                   |                   |                                       |                   |           |                          |
| Date and Time  | 14 -July-2017 01:30 am               |                   |                   |                                       |                   |           |                          |
| <b>Number of people counted in the assembly points</b>   |                                      |                   |                   |                                       |                   |           |                          |
|  | Total People inside Plant            | Assembly Point -1 | Assembly Point -2 | Assembly Point -3                     | Assembly Point -4 | Total     | Number of Person Missing |
| Plant Person   | 05                                   | 02                | 00                | 02                                    | 01                | 05        | 00                       |
| EPC  | 00                                   | 00                | 00                | 00                                    | 00                | 00        | 00                       |
| Security   | 14                                   | 00                | 02                | 04                                    | 08                | 14        | 00                       |
| Driver   | 00                                   | 00                | 00                | 00                                    | 00                | 00        | 00                       |
| Subcontractor/Service provider   | 02                                   | 00                | 00                | 02                                    | 00                | 02        | 00                       |
| <b>Total</b>   | <b>21</b>                            | <b>02</b>         | <b>02</b>         | <b>08</b>                             | <b>09</b>         | <b>21</b> | <b>00</b>                |
| First Man Reporting Time   |                                      | 01:30:00 hrs      | 01:33:05 hrs      | 01:33:30 hrs                          | 01:33:43 hrs      |           |                          |
| Last Man Reporting Time  |                                      | 01:30:02 hrs      | 01:34:12 hrs      | 01:34:00 hrs                          | 01:34:33 hrs      |           |                          |
| Point person of Assembly Points  | Assembly Point-1: Md. Nadir Shah     |                   |                   | Assembly Point-3: Mr. Nayon           |                   |           |                          |
|  | Assembly Point-2 -Mr. Muzibur Rahman |                   |                   | Assembly Point-4 Mr. Nur              |                   |           |                          |
| Search & Rescue Team Member's Name   |                                      |                   |                   | Emergency Response Team Member's Name |                   |           |                          |



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| Name | Dept | Name      | Dept      |
|------|------|-----------|-----------|
|      |      | Mr.Rafi   | OPERATION |
|      |      | Mr. Noyon | OPERATION |
|      |      | Mr.Nur    | OPERATION |

**Description of Emergency Response Team Activities**

Oil spillage happened from jetty area hose connection joint leak, instantly informed by field personnel to CCR through walky-talky. CCR informed to all area about the incident. Affected area was checked by operation people along with security personnel & action taken as per incident commander instruction. As fuel unloading was going on instantly pump was stopped, suction & discharge v/v closed. With help of emergency response team oil dispersant was poured to neutralize the spilled oil. During the incident no harm happened to any people, after everything normalized informed to all area through CCR PA. The condition of oil boom was checked by operation team after the drill finish. The boom condition found satisfactory. Then fuel unloading activities were started again. Total 16 were minutes consumed to complete the drill.

**End Time** | 01:46 hrs

**Observation:**

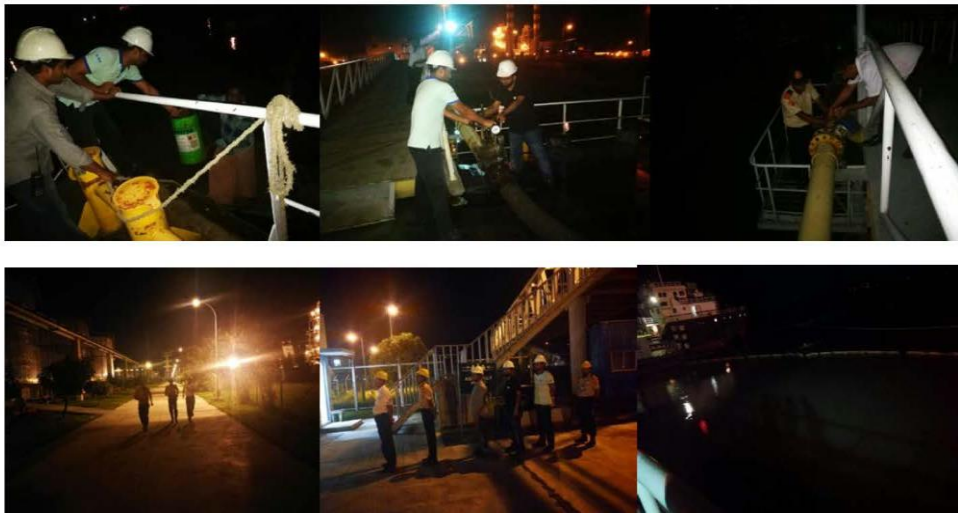
- **Communication:** Emergency situation was declared via PA system & walkie-talkie.
- **Medical and Handling of injured person:** All employees were found safe. No injury occurred during drill.
- Finally, a meeting was held after completion of the drill about the observation of the drill.

|  |   |                    |                  |
|--|---|--------------------|------------------|
| <b>Group #</b>                             | C | <b>SCE Name</b>    | Md. Saiful Islam |
| <b>Emergency Response Coordinator Name</b> |   | Mr. Md. Nadir Shah |                  |

|   |  |                              |
|---|--|------------------------------|
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### Pictures of the Drill



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| Earthquake, Explosion & Structure Collapse<br>Emergency   |                                   |                   |                   |                                       |                   |       |                          |
|---|-----------------------------------|-------------------|-------------------|---------------------------------------|-------------------|-------|--------------------------|
| Description of Emergency Scenario   |                                   |                   |                   |                                       |                   |       |                          |
| 10:15 hrs: Mr. Nur (Operation) informed to control room that there is an structural collapse happen in the jetty over bridge.   |                                   |                   |                   |                                       |                   |       |                          |
| 10:17 hrs : After verifying the situation As per section no. 2.4.2.1 of SMPCL-EHS-004 procedure. Emergency siren was activated & Emergency situation was declared by Incident commander and announced by emergency coordinator via PA system & walkie-talkie.                   |                                   |                   |                   |                                       |                   |       |                          |
| 10:21 hrs : As per section 2.2.5 of SMPCL-EHS-004 procedure, All KPS employees, drivers, contractors labors, kitchen staffs, office staffs were gathered at designated assembly point. Head count was done by assembly point coordinator and informed to emergency coordinator. |                                   |                   |                   |                                       |                   |       |                          |
| 10:24 hrs: As per section no. 2.4.3 of SMPCL-EHS-004 procedure, Emergency response coordinator checked the number of person with the last updated entry and exit record & found no person was missing   |                                   |                   |                   |                                       |                   |       |                          |
| 10:26 hrs: Emergency response team mobilized as per Incident commander's instruction.   |                                   |                   |                   |                                       |                   |       |                          |
| 10:32 hrs : The affected area was barricaded using caution tape.  |                                   |                   |                   |                                       |                   |       |                          |
| 10:36 hrs : Final Head count of all assembly points was done & informed to incident commander that nobody was found missing.  |                                   |                   |                   |                                       |                   |       |                          |
| 10:38 hrs: Emergency withdrawn by PA system & walkie-talkie   |                                   |                   |                   |                                       |                   |       |                          |
| Incident Area   | Jetty Over Bridge.                |                   |                   |                                       |                   |       |                          |
| Date and Time   | 24 -Aug-2017 10:15 am             |                   |                   |                                       |                   |       |                          |
| Number of people counted in the assembly points   |                                   |                   |                   |                                       |                   |       |                          |
|   | Total People inside Plant         | Assembly Point -1 | Assembly Point -2 | Assembly Point -3                     | Assembly Point -4 | Total | Number of Person Missing |
| Plant Person  | 07                                | 02                | 03                | 00                                    | 02                | 07    | 00                       |
| EPC Contractor  | 00                                | 00                | 00                | 00                                    | 00                | 00    | 00                       |
| Security  | 14                                | 00                | 09                | 02                                    | 03                | 14    | 00                       |
| Driver  | 02                                | 00                | 00                | 02                                    | 00                | 02    | 00                       |
| Sub contractor/BPC  | 00                                | 00                | 00                | 00                                    | 00                | 00    | 00                       |
| Total   | 23                                | 02                | 12                | 08                                    | 08                | 23    | 00                       |
| First Man Reporting Time  |                                   | 10:17:00 hrs      | 11:18:11 hrs      | 11: 18:25 hrs                         | 11:18:30hrs       |       |                          |
| Last Man Reporting Time   |                                   | 10:17:05 hrs      | 11:20:12 hrs      | 11:19:30 hrs                          | 11:19:33 hrs      |       |                          |
| Point person of Assembly Points   | Assembly Point-1: Md. Nadir (CRE) |                   |                   | Assembly Point-3: Mr. Bissojit        |                   |       |                          |
|   | Assembly Point-2 – Mr. Kamrul     |                   |                   | Assembly Point -4 Mr. Nur             |                   |       |                          |
| Search & Rescue Team Member's Name  |                                   |                   |                   | Emergency Response Team Member's Name |                   |       |                          |





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| Name | Dept | Name         | Dept      |
|------|------|--------------|-----------|
|      |      | Mr. Bissojit | OPERATION |
|      |      | Mr. Nayon    | OPERATION |
|      |      | Mr. Kamrul   | OPERATION |
|      |      | Mr. Nur      |           |

**Description of Emergency Response Team Activities**

All plant personnel's were gathered at designated assembly point after hearing the emergency declaration. In the assembly point head count was done and confirmed that no person missing. Emergency response team immediately reached with appropriate PPE to the affected area as per the incident commander's instruction. They barricaded the affected area using yellow caution tape. Finally again head count carried out and found no body was missing. The mock drill was carried out for about 23 minutes. Preparation was taken for calling Ambulance, Fire brigade but after final Head count, all are found safe. So no external support required calling.

**End Time** | 10:38 hrs

**Observation:**

- **Communication:** Emergency situation was declared via PA system & walkie-talkie and Communication was effective and responsive during the drill.
  - **Medical and Handling of injured person:** All personnel's were found safe. No injury occurred during drill.
  - **Utility Failure:** No Failure Occurred.
- Finally, a meeting was held after completion of the drill about the observation of the drill.
- **Area of Improvement:** Head count time should be less.

|  |   |                 |             |
|--|---|-----------------|-------------|
| <b>Group #</b>                             | C | <b>SCE Name</b> | Md. Shaiful |
| <b>Emergency Response Coordinator Name</b> |   |                 | Mr. Nadir.  |

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### Pictures of the Drill





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**Pictures of the Drill**





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**Date: 26.10.2017**

| <b>Chlorine leakage &amp; Medical emergency</b>  |                                    |
|--|------------------------------------|
| Description of Emergency Scenario  |                                    |
| 14:30 hrs: Mr. Khairul (BOPE) of KPS informed to control room that chlorine gas cylinder leaked during handling from vehicle in the chlorine storage room. Incident commander get details information about the incident.  |                                    |
| 14:32 hrs: As per section no. 2.4.2.1 of SMPCL-EHS-004 procedure, Emergency siren was activated & Emergency situation was declared by Incident commander and announced by emergency coordinator via PA system & walkie-talkie.   |                                    |
| As per section 7.1.5 of SMPCL-EHS-004 procedure It was assumed that the condition of the emergency was level III due to major release of chlorine gas during handling in the chlorination room. During the emergency the wind direction was north to west and the areas located in the downwind direction was more vulnerable. As per section 7.2.2 of SMPCL-EHS-004 Safety & community liaison officer communicated with the villagers and nearby plants authority on the emergency situation located in the north –west zone.  |                                    |
| Community liaison officer communicated to nearby plant and villages to inform the emergency situation and instructed to stay safe area. He promptly communicated via phone with community representative (e.g school head master, Village mosque muajjen, UP Member) and informed that there was a chlorine leakage happened in SMPCL and the wind direction is north to west, Community liaison officer went to the nearby village promptly and informed them don't get panicked. He continuously communicated with plant control room and informed them the updated information about the situation. |                                    |
| 14:37: As per section 2.2.5 of SMPCL-EHS-004 procedure, During the situation wind direction was North to west. Plant personnel's were observed the wind direction seeing wind sock and then moved quickly to the safe area (assembly point-3 & 4). Head count was done by assembly point coordinator and informed to emergency coordinator.  |                                    |
| 14:40 As per section no. 2.4.3 of SMPCL-EHS-004 procedure, Emergency coordinator checked the number of person with the last updated entry and exit record & found no person was missing  |                                    |
| 14:41 hrs: Emergency response team mobilized as per Incident commander's instruction.  |                                    |
| 14:43 hrs: Emergency response team (one entrant and one standby persons) reached at the affected area using SCBA   |                                    |
| 15:00 hrs: Both of them came out from affected area after rectifying the leakage and Informed that leakage stopped, neutralization system in service, chlorine concentration becoming less..   |                                    |
| 15:10 hrs: Final Head count was done.  |                                    |
|  |                                    |
| Incident Area  | <b>Chlorine Storage Area.</b>      |
| Date and Time  | <b>26 -Oct-2017      14:30 hrs</b> |
| <b>Number of people counted in the assembly points</b>   |                                    |



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|  | Total People inside Plant             | Assembly Point -1 | Assembly Point -2             | Assembly Point -3                            | Assembly Point -4 | Total     | Number of Person Missing |
|--|---------------------------------------|-------------------|-------------------------------|--|-------------------|-----------|--------------------------|
| Plant Person   | 45                                    | 05                | 00                            | 39   | 01                | 45        | 00                       |
| EPC  | 10                                    | 00                | 00                            | 10   | 00                | 10        | 00                       |
| Security   | 10                                    | 00                | 00                            | 07   | 03                | 10        | 00                       |
| Driver   | 04                                    | 00                | 00                            | 04   | 00                | 04        | 00                       |
| Subcontractor labor  | 09                                    | 00                | 00                            | 01   | 08                | 09        | 00                       |
| <b>Total</b>   | <b>78</b>                             | <b>05</b>         | <b>00</b>                     | <b>61</b>                                    | <b>12</b>         | <b>78</b> | <b>00</b>                |
| First Man Reporting Time   | 14:32:00 hrs                          | 00:00:00 hrs      | 14: 34:01 hrs                 | 14:35:00 hrs                                 |                   |           |                          |
| Last Man Reporting Time  | 14:33:13 hrs                          | 00:00:00 hrs      | 14:48:03 hrs                  | 14:50:05 hrs                                 |                   |           |                          |
| Point person of Assembly Points  | Assembly Point-1: Mr.Mahmudul         |                   | Assembly Point-3: Mr.Salim    |  |                   |           |                          |
|  | Assembly Point-2 – No person gathered |                   | Assembly Point –4 Mr. Khairul |  |                   |           |                          |
| <b>Search &amp; Rescue Team Member's Name</b>  |                                       |                   |                               | <b>Emergency Response Team Member's Name</b> |                   |           |                          |
| Name   | Dept                                  | Name              | Dept                          |  |                   |           |                          |
|  |                                       | Mr. Khairul       | OPERATION                     |  |                   |           |                          |
|  |                                       | Mr. Ejaz Ambia.   | OPERATION                     |  |                   |           |                          |
| <b>Description of Emergency Response Team Activities</b>   |                                       |                   |                               |  |                   |           |                          |
| <p>During the emergency situation wind direction was north to west. All the plant personnel were gathered in safe area assembly point-3 &amp; 4 after seeing the wind sock direction. Our community liaison officer immediately informed to nearby plant and villagers to move safe area and rush to the nearby villages. After head count the emergency response team immediately put on SCBA and rush to the affected area as per incident command instruction. They ensured the situation was under control. Plant authority informed earlier to Fire service and civil defense about the mock drill. Finally again head count was done and found no person was missing. Total 40 minutes were consumed to complete the drill.</p> <p>A chlorine cylinder contains max 750 kg chlorine. After rectifying the leakage, the cylinder was measured and found that 500 kg chlorine was in the cylinder. 250 kg chlorine was released it is goes condition with Level III and require evacuating nearby plant &amp; villagers mentioned in the Emergency response plan. After confirming the amount of release it was suspected that nearby village and plants will involved with risk due to the occurrence. Then Emergency withdrawn by PA system after confirming everything was normal and at the same time EHS personnel informed to the nearby villages and plans that, the emergency withdrawn and everything was normal.</p> |                                       |                   |                               |  |                   |           |                          |
| <b>End Time</b>  | <b>15:10 hrs</b>                      |                   |                               |  |                   |           |                          |
| <b>Observation:</b>  |                                       |                   |                               |  |                   |           |                          |



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- **Communication:** Emergency situation was declared via PA system & walkie-talkie.
- **Medical and Handling of injured person:** All employees were found safe. No injury occurred during drill.
- Finally, a meeting was held after completion of the drill about the observations.
- **Areas of Improvement:**

|                                     |   |          |                      |
|-------------------------------------|---|----------|----------------------|
| Group #                             | D | SCE Name | Mr. Shabuddin Biswas |
| Emergency Response Coordinator Name |   |          | Mr. Mahmudul         |

|   |   |                              |
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### Pictures of the Drill





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## Bomb Threat Emergency Drill

### Description of Emergency Scenario

|   |                                    |                   |                   |                   |                   |           |                          |
|---|------------------------------------|-------------------|-------------------|-------------------|-------------------|-----------|--------------------------|
| 23:10 hrs : Bomb threat was received by control room phone that there is a bomb kept in the switchyard control room. (Mr. Delawar CRE received the phone).  |                                    |                   |                   |                   |                   |           |                          |
| 23:11 hrs : After receiving details of threat, immediately informed to Plant Manager as per section no 8.1 of SMPCL-EHS-004 procedure   |                                    |                   |                   |                   |                   |           |                          |
| 23:13 hrs : Local police station & BPDP numbers were checked and preparation was taken for calling to them . If required.   |                                    |                   |                   |                   |                   |           |                          |
| 23: 14 hrs: As per section no. 2.4.2.1 of SMPC –EHS-004 Procedure Emergency siren was activated & Emergency situation was declared by Incident commander and announced by emergency coordinator via PA system and walkie-talkie   |                                    |                   |                   |                   |                   |           |                          |
| 23:23 hrs: As per section 8.5 of SMPCL-EHS-004 procedure, All KPS employees, drivers, contractor’s labors, kitchen staffs, office staffs were gathered at assembly point number 2 only. Head count was done by assembly point coordinator and informed to emergency coordinator.<br>(N.B: As per section 8.5, All personnel were stayed at assembly point 2 (Main security gate) for 75 minutes after the announced bomb detention time.) |                                    |                   |                   |                   |                   |           |                          |
| 23:25 hrs : As per section no. 2.4.3 of SMPCL-EHS-004 procedure, Emergency response coordinator checked the number of person with the last updated entry and exit record & found no person were missing.  |                                    |                   |                   |                   |                   |           |                          |
| 23:28 hrs : As per section 8.1 of SMPCL-EHS-004 procedure & Incident commander instruction two person from operation dept checked any package that is not normally found in the area, door are normally locked but now open or unlocked from outside the control room.  |                                    |                   |                   |                   |                   |           |                          |
| 23:36 hrs: Confirmed that no unusual device, package or anything in the area.   |                                    |                   |                   |                   |                   |           |                          |
| 23:40 hrs : Final Head count was done & informed to incident commander.   |                                    |                   |                   |                   |                   |           |                          |
| 23:43 hrs: Emergency withdrawn by PA system & walkie-talkie   |                                    |                   |                   |                   |                   |           |                          |
| Incident Area   | Waste water treatment Control Room |                   |                   |                   |                   |           |                          |
| Date and Time   | 31 -Dec-2017 23:10 hrs             |                   |                   |                   |                   |           |                          |
| <b>Number of people counted in the assembly points</b>  |                                    |                   |                   |                   |                   |           |                          |
|   | Total People inside Plant          | Assembly Point –1 | Assembly Point –2 | Assembly Point –3 | Assembly Point –4 | Total     | Number of Person Missing |
| Plant Person  | 05                                 | 01                | 04                | 00                | 00                | 05        | 00                       |
| Subcontractor/ BPC  | 00                                 | 00                | 00                | 00                | 00                | 00        | 00                       |
| Security  | 14                                 | 00                | 14                | 00                | 00                | 14        | 00                       |
| Driver  | 02                                 | 00                | 02                | 00                | 00                | 02        | 00                       |
| EPC Contractor  | 00                                 | 00                | 00                | 00                | 00                | 00        | 00                       |
| <b>Total</b>  | <b>21</b>                          | <b>01</b>         | <b>20</b>         | <b>00</b>         | <b>00</b>         | <b>21</b> | <b>00</b>                |
| First Man Reporting Time  |                                    | 23:14:00 hrs      | 23:21:22 hrs      |                   |                   |           |                          |





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|---|--|------------------------------|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |  | Document No: SMPCL-EHS-F-003 |
|   |  | Revision No.: 00             |
| TITLE: MOCK DRILL REPORT                        |  | Effective Date: 10 Jan 16    |
|   |  | Page 2 of 3                  |

**Date: 31.12.2017**

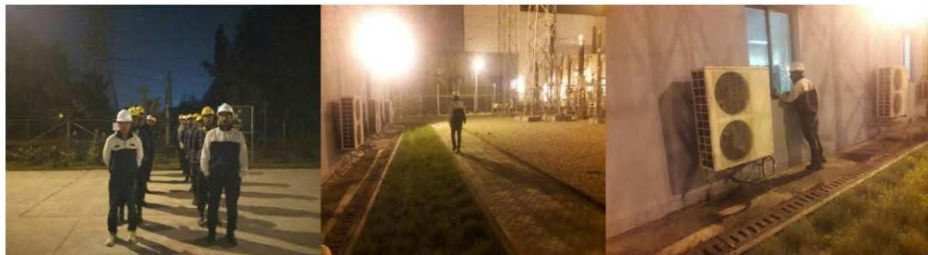
|   |   |              |  |  |  |
|---|---|--------------|--|--|--|
| Last Man Reporting Time   | 23:14:11 hrs                            | 11:22:33 hrs |  |  |  |
| Point person of Assembly Points   | Assembly Point-1: (Mr. Delawar Hossain) |              | Assembly point-3: No personnel gathered      |  |  |
|   | Assembly Point-2 –(Mr. Musfique)        |              | Assembly Point –4 No personnel gathered      |  |  |
| <b>Search &amp; Rescue Team Member's Name</b>   |   |              | <b>Emergency Response Team Member's Name</b> |  |  |
| Name  | Dept                                    | Name         | Dept   |  |  |
|   |   | Mr. Khairul  | OPERATION                                    |  |  |
|   |   | Mr. Momin    | OPERATION                                    |  |  |
| <b>Description of Emergency Response Team Activities</b>  |   |              |  |  |  |
| <p>A bomb threat was received that there is a bomb kept in the switchyard control room through phone. Immediately the details of the threat were informed to plant manager. Emergency was declared through PA and walky-talky. All plant and contractor employees gathered in the main gate assembly point. Two operation persons were checked switchyard control room as per Incident Commander Instruction. They confirmed that there is no unusual thing in that area. They also check others buildings from outside. After confirming from the Incident commander Plant Manager informed to withdraw the emergency. All plant employees and contractor were stayed at assembly point for 75 minutes after the announced bomb detention time. The drill was consumed 43 minutes to complete the drill.</p> |   |              |  |  |  |
| End Time  | 23:45 hrs                               |              |  |  |  |
| <b>Observation:</b>   |   |              |  |  |  |
| <ul style="list-style-type: none"> <li>• <b>Communication:</b> Emergency situation was declared via PA system &amp; walkie-talkie.</li> <li>• <b>Medical and Handling of injured person:</b> All employees were found safe. No injury occurred during drill.</li> <li>• Finally, a meeting was held after completion of the drill about the observations.</li> <li>• <b>Areas of Improvement:</b> <ol style="list-style-type: none"> <li>1) Dormitory personnel should be counted during this drill.</li> </ol> </li> </ul>   |   |              |  |  |  |
| Group #   | C                                       | SCE Name     | Mr. Musfique                                 |  |  |
| Emergency Response Coordinator Name   |   |              | Mr. Delawar Hossain                          |  |  |



|   |   |                              |
|---|---|------------------------------|
| <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. |  | Document No: SMPCL-EHS-F-003 |
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| TITLE: MOCK DRILL REPORT  |   | Effective Date: 10 Jan 16    |
|   |   | Page 3 of 3                  |

**Date: 31.12.2017**

### Pictures of the Drill





|   |  |                              |
|---|--|------------------------------|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |  | Document No: SMPCL-EHS-F-003 |
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|   |  | Page 1 of 4                  |
| <b>TITLE: MOCK DRILL REPORT</b>                 |  |                              |

17 - Dec-2017

## Joint fire mock drill

### Description of Emergency Scenario

12:20 hrs : Mr.Rafi (Operation) of KPS informed to control room through Walki talki, there is a Fire near GBC area.

12:22 hrs : After verifying the situation, as per section no. 2.4.2.1 of SMPCL-EHS-004 procedure. Emergency siren was activated & Emergency situation was declared by Incident commander and announced by emergency coordinator via PA system & walkie-talkie.

12:23 hrs : Emergency response coordinator was asked for external help by Incident commander from Bangladesh fire service & civil defense. (Note: Fire service & civil defense team took more than 30 minutes to reach SMPCL site.

12:29 hrs: As per section 2.2.5 of SMPCL-EHS-004 procedure, All KPS employees, drivers, contractors labors, kitchen staffs, office staffs were gathered at designated assembly point. Head count was done by assembly point coordinator and informed to emergency coordinator.

12:31 hrs : As per section no. 2.4.3 of SMPCL-EHS-004 procedure, Emergency response coordinator checked the number of person with the last updated entry and exit record & found one person was missing

12:35 hrs: As per the incident commander instruction SMPCL Emergency Response & rescue team rushed affected area & started fire fighting with the help of hydrant water. Fire service & civil defense team also rushed to the affected spot & connected fire hose with water source.

12:39 hrs : Rescue team jointly rescued injured persons from the affected area.

12:45 hrs : Emergency response team jointly extinguished fire.

12:46 hrs : First aid was provided to injured persons and sent to nearest hospital.

12:48 hrs: Final Head count of all assembly points was done & informed to incident commander that nobody was found missing.

12:50 hrs: Emergency withdrawn by PA system & walkie-talkie after confirming everything was normal.

| Incident Area  | Near GBC Area               |                   |                   |                   |                   |            |                          |
|--|-----------------------------|-------------------|-------------------|-------------------|-------------------|------------|--------------------------|
| Date and Time  | 17- Dec-2017      12:20 hrs |                   |                   |                   |                   |            |                          |
| <b>Number of people counted in the assembly points</b> |                             |                   |                   |                   |                   |            |                          |
|  | Total People inside Plant   | Assembly Point -1 | Assembly Point -2 | Assembly Point -3 | Assembly Point -4 | Total      | Number of Person Missing |
| Plant Person   | 51 (KPS employee)           | 02                | 20                | 28                | 01                | 51         | 01                       |
| Sub Contractor//BPC                                    | 35                          | 00                | 13                | 22                | 00                | 35         | 00                       |
| Security   | 13                          | 00                | 3                 | 07                | 03                | 13         | 00                       |
| Driver   | 08                          | 00                | 2                 | 06                | 00                | 08         | 00                       |
| EPC contractor   | 14                          | 00                | 5                 | 08                | 01                | 14         | 00                       |
| <b>Total</b>   | <b>121</b>                  | <b>02</b>         | <b>43</b>         | <b>71</b>         | <b>05</b>         | <b>121</b> | <b>01</b>                |
| First Man Reporting Time                               |                             | 12:22:00 hrs      | 12:23:22 hrs      | 11: 23:30 hrs     | 11:24:00 hrs      |            |                          |



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| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |  | Document No: SMPCL-EHS-F-003 |
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| TITLE: MOCK DRILL REPORT                        |  | Effective Date: 10 Jan 16    |
|   |  | Page 2 of 4                  |


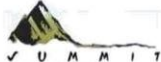
17 - Dec-2017

|   |                              |                                |  |                |  |  |
|---|------------------------------|--------------------------------|--|----------------|--|--|
| Last Man Reporting Time                       | 12:23:00<br>hrs              | 11:28:33<br>hrs                | 11:28:30<br>hrs                              | 11:29:0<br>hrs |  |  |
| Point person of Assembly Points               | Assembly Point-1 (Mr. Nadir) |                                | Assembly Point-3 (Mr.Moktar)                 |                |  |  |
|   | Assembly Point- 2 (Mr. Rafi) |                                | Assembly Point-4: (Mr. Rafique)              |                |  |  |
| <b>Search &amp; Rescue Team Member's Name</b> |                              |                                | <b>Emergency Response Team Member's Name</b> |                |  |  |
| Name  | Dept                         | Name                           | Dept   |                |  |  |
| Mr. Shamim.                                   | MMD                          | Mr. Rafi                       | OPE  |                |  |  |
| Mr. Mokles                                    | MMD                          | Mr. Jahir                      | OPE  |                |  |  |
| Mr. Ismail                                    | I&C                          | Mr. Nizam                      | MMD  |                |  |  |
| 3 persons of Fire service team                |                              | Mr. Sujon                      | MMD  |                |  |  |
|   |                              | Mr. Sowkot                     | EMD  |                |  |  |
|   |                              | Mr. Ismail                     | EMD  |                |  |  |
|   |                              | Mr. Pasa                       | I&C  |                |  |  |
|   |                              | 4 persons of fire service team |  |                |  |  |

**Description of joint Emergency Response Team Activities**

Fire was initiated in a drum with combustible material as per plan, after receiving fire incident information, incident commander declared emergency situation. In the assembly point all KPS staff, security, drivers & contractors labors reached immediately after getting the emergency declaration & head count was made and found 2 persons were missing. Incident commander asked for external help, Bangladesh Fire service & civil defense team rushed to the affected area, by this time plant emergency response team rushed to the affected spot as per the incident commander's instruction. Local Fire service & SMPCL response team jointly fight with fire and rescued missing personnel from the affected area. After ensuring first aid victim person was moved to plant first aid room. It was informed to the incident commander that the situation was under control after successfully completion of extinguishing fire and rescue. Finally again head count carried out and found okay. The mock drill was carried out for about 30 minutes. Finally, a meeting was held jointly after completion of the drill about the observation of the drill.

|                     |                 |
|---------------------|-----------------|
| <b>End Time</b>     | <b>12:50 pm</b> |
| <b>Observation:</b> |                 |

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|--|---|------------------------------|
| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |  | Document No: SMPCL-EHS-F-003 |
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| TITLE: MOCK DRILL REPORT   |   | Effective Date: 10 Jan 16    |
|  |   | Page 3 of 4                  |

17 -Dec-2017

- **Communication:** Emergency situation was declared via PA system & walkie-talkie.
- **Medical and Handling of injured person:** For drill purpose it was assume that, one person was injured in the affected area. After rescue immediately those persons were moved to safe area and first aid was given. Ambulance was called and moved them to nearest hospital.
- **Utility Failure:** No Failure Occurred.
- **Utility Failure:** No Failure Occurred.
- Finally, a joint meeting was held after completion of the drill about the observation of the drill.
- **Areas of Improvement:** (1) Rescue team and Response team should be sent separately in the affected area.

|                                     |   |          |                            |
|-------------------------------------|---|----------|----------------------------|
| Group #                             | C | SCE Name | Mr. Saiful Islam           |
| Emergency Response Coordinator Name |   |          | KPS Personnels : Mr. Nadir |

### Picture of the Drill





Summit Meghnaghat Power Company Limited  
Annual Public Environmental & Social  
Monitoring Report  
1<sup>st</sup> January – 31<sup>st</sup> December 2017



|   |                              |
|---|------------------------------|
|  <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD.<br>TITLE: GRC MEETING MINUTES | Document No: SMPCL-EHS-F-029 |
|   | Revision No.: 00             |
|   | Effective Date: 10 Jan 16    |
|   | Page 1 of 1                  |

**Date:** 18.06.2017

**Time:** 10:00 am to 12:30 pm

**Venue:** Conference Room

**Attendance:** Jung yee ryang, Mr. Young joong , Kim Do Hyung, Chang sum jang, Mr. cheol young choi, Mr. Mizanur Rahman, Mr. Muhsinul Alam, Mr. Nowroze Ahmed, Mr. Moktar

**Absence:**

| Sl No. | Communication Media      | Discussion   | Remarks   |
|--------|--------------------------|--|---|
| 01     | Grievance Box            | Grievance box has been checked. No grievance raised.                     | From Jan' 17 to Jun' 17<br>No grievance has raised. |
| 02     | Grievance Register Books | All grievance register books have been checked. No grievance registered. |   |
| 03     | Cell phone & Email       | No grievance raised  |   |

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| <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD. | <br>S U M M I T | Document No: SMPCL-A&P-F-076 |
|   |   | Revision No.: 00             |
| TITLE: ATTENDANCE SHEET   |   | Effective Date: 14 Jan 16    |
|   |   | Page 1 of 1                  |

ATTENDANCE SHEET

Half yearly Plant GRC meeting.

Date: 12/06/2017.

| S/N | Name of Attendees  | Department  | Signature          |
|-----|--------------------|-------------|--------------------|
| 1   | Youngjin Chae      | OPD         | <i>[Signature]</i> |
| 2   | Choi               | MMO         | <i>[Signature]</i> |
| 3   | Dohyung Kim        | SEP         | <i>[Signature]</i> |
| 4   | Y. R. Jung         | PM          | <i>[Signature]</i> |
| 5   | Nowroze Khan       | A&P         | <i>[Signature]</i> |
| 6   | Md. Mizanur Rahman | Operation   | <i>[Signature]</i> |
| 7   | Md. Muhsinul Alam  | Maintenance | <i>[Signature]</i> |
| 8   | Md. Moktar Hossain | A&P         | <i>[Signature]</i> |
| 9   |                    |             |                    |
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Summit Meghnaghat Power Company Limited  
Annual Public Environmental & Social  
Monitoring Report  
1<sup>st</sup> January – 31<sup>st</sup> December 2017



|   |                              |
|---|------------------------------|
|  <br>SUMMIT MEGHNAGHAT POWER COMPANY LTD.<br>TITLE: GRC MEETING MINUTES | Document No: SMPCL-EHS-F-029 |
|   | Revision No.: 00             |
|   | Effective Date: 10 Jan 16    |
|   | Page 1 of 1                  |

**Date:** 27.12.2017

**Time:** 3:00 pm to 4:30 pm

**Venue:** Conference Room

**Attendance:** Jung yee ryang, Mr. Young joong , Kim Do Hyung, Chang sum jang, Mr. cheol young choi, Mr. Mizanur Rahman, Mr. Mr. Nowroze Ahmed, Mr. Moktar

**Absence:**

| Sl No. | Communication Media      | Discussion   | Remarks  |
|--------|--------------------------|--|--|
| 01     | Grievance Box            | Grievance box has been checked. No grievance raised.                     | From July'17 to Dec'17<br>No grievance has raised. |
| 02     | Grievance Register Books | All grievance register books have been checked. No grievance registered. |  |
| 03     | Cell phone & Email       | No grievance raised  |  |





|   |               |                              |
|---|---------------|------------------------------|
| <b>KEPCO</b><br>KPS                         | <b>SUMMIT</b> | Document No: SMPCL-EHS-F-001 |
|   |               | Revision No.: 00             |
|   |               | Effective Date: 10 Jan 16    |
|   |               | Page 1 of 1                  |
| <b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> |               |                              |
| <b>TITLE: TRAINING ATTENDANCE RECORD</b>    |               |                              |

### TRAINING ATTENDANCE RECORD

GERE Meeting

Date: 27/12/2017

| S/N | Name of Attendees | Designation | Signature   |
|-----|-------------------|-------------|-------------|
| 1   | ABPGM             | ABPGM       | [Signature] |
| 2   | Tomy              | E&I         | [Signature] |
| 3   | Young's Club      | OPD         | [Signature] |
| 4   | Sumit             | NMP         | [Signature] |
| 5   | Y. R. Jang        | PM          | [Signature] |
| 6   | Nowroz Ahmed      | BHA         | [Signature] |
| 7   | Moktar Hassan     | BHA         | [Signature] |
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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-EHS-F-040 |
|   | Revision No.: 00             |
| <b>TITLE: PUBLIC CONSULTATION REPORT</b>  | Effective Date: 01 Sep 16    |
|   | Page 1 of 1                  |

**Consultation Date:** 31<sup>st</sup> December, 2017

**Village Name:** Ashrariar Char

An open discussion and consultation was held on December 31<sup>st</sup> 2017 at Ashrariar Char. At the beginning, SMPCL Representative highlighted the need of this Consultation. A leaflet was distributed among the participants for disseminating the information about the result of different environmental parameters as well as cooling water temperature measurement. SMPCL representative described the yearly EHS parameter for the year-2017 that is shown in the leaflet. SMPCL representative also invited villagers’ representative to witness the operation so that their understanding regarding this makes them clear.

SMPCL representative highlighted the grievance mechanism and importance of interaction with the community. It was informed to community representatives that all the complaints will be registered and record shall be maintained in the register book which is available at the Main Gate of the plant or can be dropped in a box placed at the main gate. The contact numbers were shared of SMPCL representatives.

SMPCL have well prepared emergency response procedure, required equipments for engaging in response procedure and appropriate training of all personnel. If any situation arises which is uncontrollable then community Lisaon officer will inform them about their next course of action.

**Pictures of the Consultation**





Document No: SMC/LA/EP/17  
 Revising No: 00  
 Effective Date: 14 Jan 17  
 Page 3 of 1

SUMMIT MEGHNA GHAT POWER COMPANY LTD.

~~Bolakir~~ Asharir •  
~~Bolakir~~ chor village .

ATTENDANCE SHEET

Date: 31/12/17

| S/N | Name of Attendees      | Department | Signature |
|-----|------------------------|------------|-----------|
|     | Md. Shabaj Miah        |            |           |
|     | Abdur Rahman           |            |           |
|     | Hazi Sona Miah         |            |           |
|     | হাজি মদ. শহীকুল ইসলাম  |            |           |
|     | Hazi Hazrat Ali        |            |           |
|     | Md. Jagim Uddin.       |            |           |
|     | Habiber Rahman Mondol. |            |           |
|     | Amir Ali               |            |           |
|     | Md. Abdel Ali          |            |           |
|     | Hazi Anower Ali        |            |           |
|     | Md. Abdel Gaffer.      |            |           |
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| <br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | <br><b>SUMMIT</b> | Document No: SMPCL-EHS-F-040 |
|  |  | Revision No.: 00             |
| <b>TITLE: PUBLIC CONSULTATION REPORT</b>   |  | Effective Date: 01 Sep 16    |
|  |  | Page 1 of 1                  |

**Consultation Date:** December 31<sup>st</sup> 2017

**Village Name:** Char Balaki

An open discussion and consultation was held on December 31<sup>st</sup> 2017 at Char Balaki Village. At the beginning, SMPCL Representative highlighted the need of this Consultation. A leaflet was distributed among the participants for disseminating the information about the result of different environmental parameters as well as cooling water temperature measurement. SMPCL representative described the yearly EHS parameter for the year-2017 that is shown in the leaflet. SMPCL representative also invited villagers’ representative to witness the operation so that their understanding regarding this makes them clear.

SMPCL representative highlighted the grievance mechanism and importance of interaction with the community. It was informed to community representatives that all the complaints will be registered and record shall be maintained in the register book which is available at the Main Gate of the plant or can be dropped in a box placed at the main gate. The contact numbers were shared of SMPCL representatives.

SMPCL have well prepared emergency response procedure, required equipments for engaging in response procedure and appropriate training of all personnel. If any situation arises which is uncontrollable then community Lisaon officer will inform them about their next course of action.

**Picture of the Consultation**



Summit Meghnaghat Power Company Ltd.

TITLE: ATTENDANCE SHEET

Document No: SMPCL/AAP/E/076

Revision No: 00

Effective Date: 14 Jan 16



Page 1 of 1

ATTENDANCE SHEET

Bolakir chor village

Date: 31/12/17

| S/N | Name of Attendees | Department | Signature   |
|-----|-------------------|------------|-------------|
|     | Md. Mainuddin     |            | [Signature] |
|     | [Signature]       |            | [Signature] |
|     | [Signature]       |            | [Signature] |
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| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-EHS-F-040<br>Revision No.: 00<br>Effective Date: 01 Sep 16 |
| <b>TITLE: PUBLIC CONSULTATION REPORT</b>  | Page 1 of 1   |

**Consultation Date:** 31<sup>st</sup> Decemer, 2017

**Village Name:** Dudghata & Kurbanpur

An open discussion and consultation was held on 31<sup>st</sup> December, 2017 at Dudghat & Kurbanpur Villages. At the beginning, SMPCL Representative highlighted the need of this Consultation. A leaflet was distributed among the participants for disseminating the information about the result of different environmental parameters as well as cooling water temperature measurement. SMPCL representative described the yearly EHS parameter for the year-2017 that is shown in the leaflet. SMPCL representative also invited villagers’ representative to witness the operation so that their understanding regarding this makes them clear.

SMPCL representative highlighted the grievance mechanism and importance of interaction with the community. It was informed to community representatives that all the complaints will be registered and record shall be maintained in the register book which is available at the Main Gate of the plant or can be dropped in a box placed at the main gate. The contact numbers were shared of SMPCL representatives.

SMPCL have well prepared emergency response procedure, required equipments for engaging in response procedure and appropriate training of all personnel. If any situation arises which is uncontrollable then community Lisaon officer will inform them about their next course of action.

**Pictures of the consultation**





|                                      |  |                              |
|--------------------------------------|--|------------------------------|
|                                      |  | Document No: SMPCL-A&P-E-076 |
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### Dudghata village

#### ATTENDANCE SHEET

Date: 31/12/17

| S/N | Name of Attendees        | Department | Signature   |
|-----|--------------------------|------------|-------------|
|     | ২১২৪৪ (২৪৪)              |            | ২১২৪৪ (২৪৪) |
|     | মুন্সীর আমজাদ            |            | Bumy        |
|     | সাগিচাঁদা ইয়াসমিন       |            | সাগিচাঁদা   |
|     | সুলতানা রাজিয়া          |            | সুলতানা     |
|     | নূরুলনসা                 |            |             |
|     | সাবিতা ইয়াসমিন          |            | সাবিতা      |
|     | আঃ হানিম                 |            | আফিয়া      |
|     | আঃ হাই                   |            |             |
|     | শেঃ সাদিক                |            | Abdullah    |
|     | বিকিবুর্ন ওয়াসিম উদ্দিন |            | শাহিন       |
|     | শেঃ আফতাব উদ্দিন         |            | বিকিবুর্ন   |
|     | আব্দুল্লাহ আলী           |            | আব্বাস      |
|     | শেঃ কাশফ উদ্দিন          |            | আব্দুল্লাহ  |
|     | কবীরুল উদ্দিন            |            | সাহিন       |
|     | শেঃ নাজিম উদ্দিন         |            | সাহিন       |
|     | ববুলুর বসম               |            | আব্দুল্লাহ  |
|     | আব্দুল ওয়াসিম উদ্দিন    |            | আব্বাস      |
|     | সিদ্দিক আলী              |            | আব্বাস      |
|     |                          |            |             |
|     |                          |            |             |
|     |                          |            |             |
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ATTENDANCE SHEET



Kurbanpur village

Date: 31/12/17

| S/N | Name of Attendees | Department | Signature   |
|-----|-------------------|------------|-------------|
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |
|     | Mr. ...           |            | [Signature] |

consultation has been held on 31/12/17  
 at kurbanpur village



|  |   |
|--|---|
|   <p><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b></p> | <p>Document No: SMPCL-EHS-F-040</p>                                   |
| <p><b>TITLE: PUBLIC CONSULTATION REPORT</b></p>  | <p>Revision No.: 00<br/>Effective Date: 01 Sep 16<br/>Page 1 of 1</p> |

**Consultation Date:** December 28<sup>th</sup> 2017

**Village Name:** Ganganagar

An open discussion and consultation was held on December 28<sup>th</sup> 2017 at Ganganagor Village. At the beginning, SMPCL Representative highlighted the need of this Consultation. A leaflet was distributed among the participants for disseminating the information about the result of different environmental parameters. SMPCL representative described the last 7 months EHS data and parameter that are shown in the leaflet. SMPCL representative also invited villagers’ representative to witness the operation so that their understanding regarding this makes them clear.

After the end of discussion, SMPCL representative highlighted the grievance mechanism and importance of interaction with the community. It was informed to community representatives that all the complaints will be registered and record shall be maintained in the register book which is available at the Main Gate of the plant or can be dropped in a box placed at the main gate. The contact numbers were shared of SMPCL representatives.

**Picture of the Consultation**



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ATTENDANCE SHEET

Ganga Nagar Village

Date: 28/12/17

| S/N | Name of Attendees   | Department | Signature      |
|-----|---------------------|------------|----------------|
|     | Nasir               |            | নাসির          |
|     | Md. Shahjahan       |            | শাহজাহান       |
|     | Md. Shahin          |            | শাহিন          |
|     | Md. Kalem           |            | কালম           |
|     | Noorul Islam        |            | নূরুল ইসলাম    |
|     | Noor Mokammed       |            | নূর মোকাম্মেদ  |
|     | Md. Bellal Hossain  |            | বেলল হোসেন     |
|     | Md. Bellal-2        |            | বেলল-২         |
|     | Md. Delower Hossain |            | দেলোয়ার হোসেন |
|     | Md. Abdul Latif     |            | আব্দুল লতিফ    |
|     | Md. Mojibur Rahman  |            | মোজিবুর রহমান  |
|     | Md. Tomu Miah       |            | তমু মিয়া      |
|     | Md. Hasun Master    |            | হাসুন মাস্টার  |
|     | Md. Khalikur Rahman |            | খালিকুর রহমান  |
|     | Md. Masudur Rahman  |            | মাসুদুর রহমান  |
|     | Md. Salauddin       |            | সালুদ্দিন      |
|     | Md. Nurul Amin      |            | নূরুল আমিন     |
|     | Md. Rojon           |            | রোজন           |
|     | Md. Mily            |            | মিলি           |
|     | Md. Bellal Hossain  |            | বেলল হোসেন     |
|     | Md. Anower Hossain  |            | আনোয়ার হোসেন  |
|     | Md. Shahabuddin     |            | শাহাবুদ্দিন    |
|     | Md. Chidul          |            | চিদ্দুল        |
|     | Md. Sabbir          |            | সাব্বির        |
|     | Md. Shafiqul        |            | শাফিকুল        |

|   |   |                              |
|---|---|------------------------------|
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**Consultation Date:** 28<sup>th</sup> December, 2017

**Village Name:** Islampur

An open discussion and consultation was held on 28<sup>th</sup> December, 2017 at Islampur Villages. At the beginning, SMPCL Representative highlighted the need of this Consultation. A leaflet was distributed among the participants for disseminating the information about the result of different environmental parameters as well as cooling water temperature measurement. SMPCL representative described the yearly EHS parameter for the year-2017 that is shown in the leaflet. SMPCL representative also invited villagers’ representative to witness the operation so that their understanding regarding this makes them clear.

SMPCL representative highlighted the grievance mechanism and importance of interaction with the community. It was informed to community representatives that all the complaints will be registered and record shall be maintained in the register book which is available at the Main Gate of the plant or can be dropped in a box placed at the main gate. The contact numbers were shared of SMPCL representatives.

SMPCL have well prepared emergency response procedure, required equipments for engaging in response procedure and appropriate training of all personnel. If any situation arises which is uncontrollable then community Liaison officer will inform them about their next course of action.

**Pictures of the Consultation**



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ATTENDANCE SHEET

ATTENDANCE SHEET  
 Islampur Village.

Date: 28/1/17

| S/N | Name of Attendees   | Department | Signature   |
|-----|---------------------|------------|-------------|
|     | Mr. Rasel           |            | [Signature] |
|     | Mr. Jomir Ali       |            | [Signature] |
|     | Md. Habib           |            | [Signature] |
|     | md. Hossain Ali     |            | [Signature] |
|     | Md. Motiur Rahman   |            | [Signature] |
|     | Mr. Moti            |            | [Signature] |
|     | Mr. Banek           |            | [Signature] |
|     | Habibur Rahman Emon |            | [Signature] |
|     | Md. Shorif Hossain  |            | [Signature] |
|     | Mr. Rapchan         |            | [Signature] |
|     | Mr. Abu Miah        |            | [Signature] |
|     | Md. Hajarat Ali     |            | [Signature] |
|     | Md. Emran           |            | [Signature] |
|     | Md. Sifatul Islam   |            | [Signature] |
|     | Md. Monir           |            | [Signature] |
|     | Md. Mostafa         |            | [Signature] |
|     | Md. Emran Ali       |            | [Signature] |
|     | Md. Shaha Alam      |            | [Signature] |
|     | Md. Shoficullah     |            | [Signature] |
|     | Md. Mizanur Rahman  |            | [Signature] |
|     |                     |            |             |
|     |                     |            |             |
|     |                     |            |             |

|   |                              |
|---|------------------------------|
| <br><br><b>SUMMIT MEGHNAGHAT POWER COMPANY LTD.</b> | Document No: SMPCL-EHS-F-040 |
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**Consultation Date:** December 31<sup>st</sup> 2017

**Village Name:** Pachani

An open discussion and consultation was held on December 31<sup>st</sup> 2017 at Pachani Villages. At the beginning, SMPCL Representative highlighted the need of this Consultation. A leaflet was distributed among the participants for disseminating the information about the result of different environmental parameters as well as cooling water temperature measurement. SMPCL representative described the yearly EHS parameter for the year-2017 that is shown in the leaflet. SMPCL representative also invited villagers’ representative to witness the operation so that their understanding regarding this makes them clear.

SMPCL representative highlighted the grievance mechanism and importance of interaction with the community. It was informed to community representatives that all the complaints will be registered and record shall be maintained in the register book which is available at the Main Gate of the plant or can be dropped in a box placed at the main gate. The contact numbers were shared of SMPCL representatives.

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**Pictures of the Consultation**





SUMMIT MEGHNA GHAT POWER COMPANY LTD.

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ATTENDANCE SHEET

*paclani village*

Date: *03/12/17*

| S/N | Name of Attendees         | Department | Signature          |
|-----|---------------------------|------------|--------------------|
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
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|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |
|     | <i>[Handwritten Name]</i> |            | <i>[Signature]</i> |