

# **Environmental Monitoring Report**

Project Number: 42265-023

January 2018

Period: January 2017 – June 2017

Part B: Appendices

# IND: Assam Urban Infrastructure Investment Program - Tranche 1

Submitted by

Guwahati Development Department and Urban Development Department, Government of Assam

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# 2. Duties and Responsibilities

#### Duties

As a general rule, safety is the responsibility of every individual at site, irrespective of his designation or role. However, depending on the size of the project, implementation of the safety rules and regulations and monitoring of the same shall be the responsibilities of Project Manager, Safety Manager, Safety Officer and Safety Supervisor. Their responsibilities are given below.

# Job Responsibilities

- Project in Charge (Project Manager): Shall report to Project Coordinator at Head office and shall be responsible for the successful and satisfactory completion of any type of Project activity.
- Project Engineer: Shall report to Project-In-Charge and shall be responsible for all individual activities at site including safety, quality and progress.
- Site Engineer: Shall be responsible for overall implementation, monitoring and control of all activities involved in construction site preparation work as the case may be.
- Engineer (QA/QC and Planning): Shall report to Project In-Charge and shall be responsible for overall control and inspection of QC activities, day to day micro planning in coordination with Project Engineer & site engineers related to the project.
- Lab Technician: Shall report to QA/QC Engineer and shall be responsible for checking of materials involved. He will be responsible for ensuring that the materials are from approved source. He will also be responsible for day to day monitoring of laboratory activities.
- Safety Engineer/Officer Shall report to Project Manager/ Project Coordinator and shall be responsible for all safety related activities at site.
- Surveyor: Shall report to Project Engineer and shall be responsible for all survey works.
- Store Officer. Shall report to Project-In-Charge and shall be responsible for getting inspection for incoming materials and control of purchased products, materials etc at site. Also shall be responsible for inventory, storage handling, warehousing and issuance for use at work.



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# 3. Overview of Project

#### Location

The site is located approximately 06 km North direction from Geeta nagar police station near to Refinery Hospital at the Location-Gopalnagar (Guwahati) in the state of Assam.

# Nature of Works

The works comprise the site preparation work and complete civil construction of integrated Clear water reservoir as well of ADB with capacity of storage 17MLD per day. The effective date of control is 31/08/2018 and site mobilization has started on July-2016.

# 4. Safety Philosophy and Factors

#### 4.1. Philosophy of Safety

- Most accidents and injuries are preventable
- There is always a right way of doing any job.
- Most accidents are the direct result of a faulty or negative attitude towards safe practices.
- Front line engineers / supervisors are in the best position to correct and mould personal attitudes.
- Most accidents and injuries can be prevented by the front line workers who should be adequately assisted and supported by all levels of the organization.
- . Conviction is more to be desired than compulsion.

# 4.2. Factors affecting safety

Most accidents are a result of one or more of these factors.

- Situational Factors These happen to be found in situations in which an
  accident takes place.
- Individual Factors There is enough evidence to show that psychological and
  physical characteristics of the people involved in accidents have always played
  a major role in perpetrating them.
- Environmental Factors Many environmental factors like poor illumination, high temperature, dusty condition, excessive humidity, rain, poor ventilation, high noise level and congested work places etc contribute to accidents.



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# 4.3. Safety Campaign

To create and maintain awareness of safety at all levels, site management will as on ongoing process, conduct safety campaign which will indicate the following kinds of activities:

- Safety tool box meetings should be conducted frequently with the workers, in the presence of supervisors, before commencement of work. The number of workers present and the topics discussed should be recorded. Please see Appendix-A for the format.
- · Display safety slogans, posters and caution boards
- · Conduct safety training programmes.
- · Declare awards
- For special kind of training and induction programme a separate assembly point will be made

# 5. Safety Regulations

For the condition of service of the "building and other construction workers" for safety, health and welfare measures and for other connected matters, the following labour laws are particularly relevant:

- The Workmen's Compensation Act, 1923
- The Contract Labour (Regulation and Abolition) Act, 1970
- The Child Labour Act, 1986.

# 5.1. Accident Reporting

- All accidents are to be reported to the safety department whether major, minor or near-misses. All accidents leading to injury are to be reported to DSC site Management. This should be followed up with submission of documents for Workmen's Compensation claims, as relevant.
- All accidents leading to lost time, total injuries must be reported to the statutory authorities with the laid down procedures.
- A readily available record must be maintained which will record all injuries, property damages, damages occurrences and near misses.
- All accidents that result in property damages or loss should be properly investigated by the site management.



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# 5.2. Statistics of Accidents

The rates of accidents at a site are usually measured in the following manner:

Frequency Rate

Number of Lost Time Injuries x 100,000

Man Hours Worked

Severity Rate

Man Days Lost due to Injuries X 100,000

Man Hours Worked

#### 5.3. Visitors

All visitors, including vendors shall follow the following safety instructions:

- Wear the required PPE
- · Adhere to the rules laid down in the DSC Site Regulation and the DSC Site Instructions
- Visitors shall be accompanied by an inducted person whilst visiting the site.
- Not to carry any camera, video, radio, radioactive material and electronic equipment inside the project area without the prior permission of DSC Site Management.
- Not to carry any weapons or drugs inside the project premises

# 6. Housekeeping

Good house keeping contributes to efficient operations, improved employee's morale, better productivity and reduction in accidents. Housekeeping reflects an organization's work outlook.

#### Check List for Housekeeping

- Are offices and surroundings clean?
- Are toilets clean?
- Are waste baskets, spittoons etc. placed?
- Are fuel/oil drums and DA/Oxygen cylinders properly stored?
- Are scraps so stored that they do not present tripping hazard?
- Are floors holes / openings covered or barricaded?
- · Are all areas where people and machinery could be exposed to falling objects protected / barricaded?
- Has permission been taken to remove covers and barricading around openings?
- Are excess and non-usable materials removed and properly stacked on a designated area?



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- On completion of a job are tools and other left over materials / debris removed from the site?
- Are planks with protruding nails left in position where they can cause injuries?
- Are work areas, approach roads, etc. kept clean for easy movement of men and materials?
- · Are work areas adequately illuminated?

#### Monsoon Precautions

Prior to the onset of heavy rain, following checks should be carried out for good housekeeping.

- · Open / clear all drains
- · Barricade all pits / back fillings
- Tarpaulins should be arranged in sufficient quantity
- Undertake repellent treatments for malaria / cholera at labour colony.
- · Adequate availability of medicines at paramedic

# 7. Personal Protective Equipment

#### 7.1. Introduction

The principal requirement of Personal Protective Equipment must be:

- To safeguard the worker from identified hazards to which he is exposed.
- · To afford essential movement of limbs and reasonable comport while using it.
- · To convince the workers of its utility
- · To be easy for cleaning and maintenance.

Suitable Personal Protective Equipment is required to be provided to the Workers and comprises of:

- Safety Helmets(with different colours)
- · Safety shoes
- Ear Protectors
- Hand gloves
- Dust Masks & respirators(if require)
- Safety Harnesses
- Fall arresters



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# 7.2. Safety Helmets

- A safety helmet is designed to protect the head from falling objects, knowing against solid objects or a personal fall.
- · Since helmet is an important safety tool, its maintenance is important.

#### 7.3. Foot Protection

- · Feet should be protected by using safety shoe with steel toe-cap.
- For electrical work, non-conductive foot wear should be used.
- For water slush and sanitation hazardous, gumboot should be used.
- · Safety foot ware kept clean and dry.

#### 7.4. Hand Protection

- While handling metal sheet, reinforcement steel, leather gloves should be used.
- · Canvas gloves should be used while handling grease, oil, dirt etc.
- Insulated rubber gloves should be used in case of electrical work.

### 7.5. Shields for Welding Jobs

Since Eyes are precious, welding shields for arc welding, gas welding, cutting are a must

### 7.6. Ear Protectors

- Exposure to high intensity sound (90 db and above) run the risk of hearing loss.
   Therefore, Earplugs are necessary under such exposure.
- · Ear protector should be protected from grease and oil.

# 7.7. Dust Masks & respirators

- In civil construction, light commercial cartridge respirators or canister gas masks are usually adequate.
- Before using dust mask, each part shall be carefully inspected and checked.
- A correct fit is important.
- Respirators should be kept away from chemicals, sunlight, dust and moisture.



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### 7.8. Safety Harnesses

- Whenever a worker works a height, he must use full body harness to prevent him from falling. Use of safety harnesses is compulsory for workers who are working at height.
- The safety harness must be secured to anchorage which is independent from scaffold or platform on which the person is working.
- The length of the line that fastens the safety harness should be as short as
  possible.
- Safety belt should be inspected before use for any damage.

### 8. Safe Handling of Materials

#### 8.1. Introduction

- · Handling of materials accounts for 20-25% of all occupational injuries
- . Strains, sprains, fractures are common injuries during handling materials
- · To reduce the injuries, movement of materials should be minimized.
- · Wipe of greasy, wet, slippery or dirty objects before trying to handle them.

#### 8.2. Manual Lifting

- Keep the fingers away from pinch points, especially when putting down the material.
- · Keep hands free of oil or grease
- · Use leather hand gloves
- · Clear path of travel, whenever necessary
- · Get a firm grip on the object.

#### 8.3. Wire Ropes and Slings

- Check for broken fibres, abrasions and wear and tear i.e. to make sure that the slings are in good condition.
- In case of any evidence of cut, excessive wear or other damage to the sling, it must be discarded
- · Care should be taken to avoid dragging of slings over sharp objects
- For inspection, the inner yarns should be exposed by untwisting the rope. If it is bright, clear and unspotted, the strength of the rope has been preserved
- · When in doubt, avoid taking any chance.
- · Splicing shall be done only by a trained splicer.



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# 8.4. Mechanical Lifting

- The lifting appliances consisting of pulley blocks, chain, rope sling, shackles etc shall be examined once in a month.
- Lifting appliances shall not be overloaded beyond safe working load, except for the purpose of tests.
- Only trained persons shall be allowed to operate the lifting appliances.
- Chain and ropes having knots in their parts shall not be used for lifting or loading of suspended loads.
- Loads shall not be left suspended longer than the movement time and certainly not overnight.

#### 8.5. Hazardous Materials

#### Cement

- Cement dust causes reactionary fibrosis whose symptoms are cough and difficulty in breathing.
- Workers should be provided with suitable masks

#### Asbestos

Products containing asbestos are not permitted to be used on site.

# Inflammable Liquids

- All fuel / oil drums should be stacked vertically within barricaded area
- Fuel / oil drums shall not be stored under direct sunlight or near power points.
   They should be stored preferably under the shade with sides open for proper ventilation.
- Fuel / Oil drums should be clearly marked and identified.
- Majority of paints are inflammable. Therefore in storage or usage, must be Caution boards must be displayed in storage yard.
- Open flame and spontaneous igniting materials should be kept away from storage area.
- Adequate number of fire extinguishers / sand buckets shall be kept ready near the storage yard.
- Foam type fire extinguisher should be kept at the storage place
- Spillage of drums should be noticed and immediate corrective action has to be taken
- · Pumps should be used for extraction of fuel.



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# Handling of Gas Cylinders

- Gas cylinders must have cylinder caps and should be stored in a safe and well ventilated place away from sun.
- Acetylene cylinder have to be stored in vertical position while the oxygen cylinders should be kept in horizontal position
- Empty and charged cylinders should be stored separately
- Cylinders should be transported by motor trucks or hand carts. Cylinder may be rolled on bottom edge but not to be rolled or dragged on the ground
- Empty cylinders should also be handled carefully as they are under partial gas pressure.
- Cylinders being transported on vehicles must be secured against any movement which could result in damage
- Oil or grease should not be used under any circumstances on threads of valves or adapters of gas cylinders
- Only special fitting spanners or keys designed for the purpose of opening cylinder valves should be used.
- In the event of a gas leak, the cylinder valve must be closed and removed to a safe place

# 9. Electrical Safety

### 9.1. Introduction

- Electricity is a serious safety hazard if handled carelessly
- This chapter aims to highlight how electric connections, distributions, power tools, electric equipment should be managed.
- Following supplies will be used at construction site:
  - > 440 V, 3 Phase for heavy plant
  - > 220 V, 1 Phase for light plant & lighting
- Golden rules for reducing electrical risks are :
  - Correct size of cable of right specification
  - Good insulation
  - Correct rating of fuses
  - Use of circuit breakers and ELCBs
  - Proper earthing



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#### 9.2. Electrical Cables

- Ensured that distribution cables are not causing a hazard at opening, passages, ladders etc.
- To be ensured that cables are not lying on the ground unprotected from physical damage or wet condition
- · To be ensured that cables are protected from edges of sharp objects
- . To be ensured that lighting circuits are not being used for power tools etc.
- To be avoid that temporary / improvised junction
- To be ensured that any special make up leads / extensions are made by qualified Electricians
- . To be ensured that correct plugs are fitted
- . To be ensured that plug covers are not damaged

### 9.3. Electrical Work

- Only authorized person who are fully acquainted with the nature and type of hazards involved in their work shall be allowed to do the work.
- Overhead lines should be thoroughly checked periodically and well maintained
- Frames of every motor, transformer and other electrical equipment shall be properly earthed by two separate and distinct connections.
- All electrical connection shall be done through proper distribution box using bus bur connection.
- During any maintenance work, it shall be ensured that fuses are removed and switches are locked in OFF position to avoid any accident.
- · As far as possible currents higher than 50MA shall be avoided
- Appropriate and proper installed tools shall be used for repair work.
- In handling portable lamps or other equipment which have metallic enclosures,
   3-pin plug shall be connected and metal covers shall be connected to the earth terminal.
- Insulated cables shall be used for portable or transportable motors, transformers, electric drills, welding sets etc to protect from mechanical damage.
- Handling of metallic tools, abrasives, hardware etc with electrical rubber gloves should be avoided.
- Wooden ladder is preferable for electrical work. In the case of use of metallic ladder, the ladder feet should be properly insulated.
- All personal engaged in electrical work shall be familiars with the method of giving artificial respiration.
- Weekly safety audit on all electrical work, in accordance with Appendix-E shall be carried out.



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### 9.4. Power Appliances

Following are to be checked before use:

- Sparking from carbon bushes
- · Cable insulations and rating
- Terminations
- Fuse rating
- ELCB used
- · Earthing
- · Guards and covers
- · Vibrations when switched on
- · High speed steel bits without lubrication should not be used.
- · Dragging of appliance by cable

### 9.5. Monsoon Precautions - Electrical

- To check all sub-distribution boards with further supports / anchors to avoid boards falling and proper shade made of either metallic or ply wood.
- . To inspect installed ELCB throughout rainy season
- To provide raincoat / gumboots for all electrical personnel
- To check all the temporary joints and make them water proof to the extent possible and any temporary joint in water shall never be allowed
- To provide glass covers for Halogen fittings for avoiding water entry
- To provide suitable covers over UPS batteries
- To provide suitable shed to auxiliary PDB.

### 10. Safety in Construction Equipment

# 10.1. General Precautions

- · Every fly wheel moving part of prime mover must be securely fenced
- · Guards must be positioned is case of moving machines
- . Maintenance job must not be attempted when machine is in motion

# 10.2. Maintenance

There are three kinds of maintenance:

- Preventive
- Breakdown
- Predictive



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### Preventive Maintenance

- Periodic servicing, inspection, over handling of Plant / Machinery, Oil change, lubrication, greasing etc (routine maintenance) shall be carried as per instruction of maintenance manual.
- Preventive maintenance like servicing and inspection may be carried out during non-working hours, so that equipment is available for production.

#### Breakdown Maintenance

- To be attended to with urgency so that production does not suffer
- . To make the spares available at site
- To maintain Log Book for each major equipment where major breakdowns, overhauls are recorded

#### **Predictive Maintenance**

- Through good chi diagnostics, arising out of knowledge, it may be possible to
  predict failure (s) e.g. excess consumption of lubricant, hot bearing, colour of
  exhaust gases, as a fore warning trouble
- . These rectification should be planned and adopted as early as possible

#### 10.3. Vehicles and Trailers

- Drivers of vehicles should be trained, competent and be in possession of valid driving licence for the type of vehicles being driven.
- Engine oil, water / coolant, battery, brakes, clutch and tyres should be checked before use.
- Vehicles / Trailers shall be properly loaded so as to prevent displacement of the load.
- Transportation of abnormal loads may only be under taken after obtaining approval from Siemens site Management
- All heavy vehicles must have an automatic reverse alarm.

### 10.4. Cranes

- Operation has to be carried out by an authorized / trained operator who is aware of working loads.
- Before the crane is moved, it is to be ensured that it moves on a firm levelled base and the hook is high enough to clear all obstacles
- Load should not be carried over men on ground and it must sound a gang or siren. Whenever necessary



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 While parking the crane, it is to be ensured that the boom is lowered and brake is not

# 10.5. Earth Moving Equipment

- All heavy earth moving equipment shall have trained operators
- · Safety helmets must be worn by all operators and helpers
- · Care must be taken regarding electric lines when positioning equipment
- Banks men should be deployed when reversing

### 11. Safety in Construction Process

# 11.1. Cast in Situ Bored Piles

- · Rigs should be placed on firm and level ground
- · Crawler mounted rigs should not be moved in loose soil / marshy land
- . Wire rope should be inspected. There should not be any kink in the wire ropes
- Winch should have proper break shoes and locking device. All gears, pulleys etc should be lubricated properly.
- . Moving / turning parts should be proper guarded
- · Approach to mixing tank should be clear
- . Cage insertion should be done safely in the presence of a supervisor.
- Good housekeeping should be maintained and the empty bore should be protected properly

#### 11.2. Ladders

- All ladders used shall be of good construction and of adequate strength.
- Ladders with broken or missing rungs or otherwise defective shall not be used.
- Portable ladders to have non-slip bases
- Ladders shall rise to a height of al least 1.15m above the places of landing.
- Ladders used for vertical heights of more than 9m shall have intermediate landing. The landing shall be provided with guard rails.
- Ladders in use should be security fixed at top and bottom. One person should preferably hold the ladder when it is in use.
- Fixed ladders should have a preferred inclination of 75°

# 11.3. Scaffolds

 Soundly designed and constructed scaffolding of adequate strength shall be used for all work of long duration that cannot be done from the ground level or from part of a permanent structure.



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All uprights should be provided with base plates.

- All scaffoldings shall be securely supported or suspended. Chains or ropes
  used for suspension of scaffoldings shall have adequate strength and then shall
  be fastened to safe anchorage points.
- Scaffolds higher than two meters shall have suitable guard rails to prevent persons working on the scaffolds from falling.
- All scaffolds shall be inspected by the person in charge of the work before commencement of the work and recorded.
- Scaffolding made with bamboo and coir rope shall not be used it is has become
  wet.
- Safe means of access and egress must be maintained, to and from a working space.

# 11.4. Welding and Gas Cutting

- . Gas cylinders shall be kept away from open flames and other sources of heat.
- Acetylene cylinders. Oils, grease etc shall be kept away from oxygen cylinders.
   Oil plus oxygen means danger.
- When torches are being changes or welding stopped for a short time, the cylinder valves shall be closed.
- Gas cutting torches shall be preferably lighted by means of friction and not with matches.
- Welding or cutting sparks should not be allowed to fall on the cylinders. While
  doing overhead welding of gas cutting work, care must be taken to see that
  molten metal does not fall on persons working below. The passage below
  should be suitably cordoned off. The molten metal should not be allowed to fall
  on machines, internal thin wall pipes or vessels, flammable materials like jute
  bags etc.
- Cables used for welding sets must be heavily insulated and adequately
  protected from mechanical injuries. The welding sets must be earthed properly
  before switching on the electric supply.
- Whenever welding work is done, it should be ensured that the job is securely earthed.
- Any inflammable substance in a vessel or tank should be first completely removed from it before doing welding, soldering, cutting or brazing work on the vessel. If any fumes of the inflammable substance are present, they should be made non-explosive by blowing of air before undertaking these operations.
- Before any heavy structural member overhead is cut, it shall be ensured that it
  is supported by suitable ropes or chains to prevent its dropping or swinging.
- Looking at welder's arc shall be avoided as it affects the eyes and is likely to cause blindness. Looking at an oxyacetylene flame also is to be avoided.



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# 12. Emergencies

In the event of burns, shocks, fractures bleeding, these are to be attended immediately.

In case of any accident the patient must be shifted to site First aid centre immediately where a full time male practitioner has been deployed to handle the situation.

During emergency call

Ambulance - 108/9577409350 Umakant Sharma - 7715065556/9777292874 Debojit Das - 7002738274/9859437793 Hospital - 0361-2970331/9613853213

#### 12.1. Fires

Three factors are essential for combustion:

- · Fuel e.g. wood, petrol
- Oxygen (Air)
- · Heat / sparks to ignite

The fire is extinguished by removing one of the three. This is the basic principle of fire fighting.

#### Fire fighting equipment

The site must have adequate number of the following types of fire fighting equipment:

- Water type extinguishers suitable for paper, wood etc type of fires.
- Dry powder / Carbon dioxide gas/ type extinguishers for electrical fire
- · Foam type extinguishers for fires caused by Oil, paints & flammable liquid
- Buckets filled with water and sand

#### 12.2. First Aid

- First-aid kits shall be readily available for different emergencies
- · A vehicle should always be kept in readiness to evacuate serious injuries
- A paramedic should be deployed at work site

First Aid box should be kept containing following items:

- 12 small and 6 large sterilized dressings
- · 6 large size burn dressing and 6 packets sterilized cotton wool
- · 1 bottle containing a two percent alcoholic solution of iodine
- 1 roll of adhesive plaster
- · A snake bite lancet



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- 1 (30 gm) bottle of potassium permanganate crystals
- One pair scissors
- A bottle containing 100 tablets of aspirin
- Ointment for burns
- A bottle of a suitable surgical antiseptic solution

#### 13. Welfare

#### 13.1. Site Offices and Accommodation

Office and accommodation units to be installed on site must adhere to the following requirements:

- · All units must be of good quality and condition.
- All units must be electrically powered and tested (with RCD's)
- No gas appliances are allowed in accommodation areas.
- Fire Extinguishers must be provided in all office and accommodation units in sufficient numbers.
- Steps to accommodation units must be soundly constructed to enable safe access/egress and adequately illuminated.
- Accommodation units must be cleaned on a regular basis and all packaging waste disposed of into waste skips with doors.
- Infestation control measures must be employed once the units are established.
- All water and waste provision must comply with local laws and regulations.
- Areas around office and accommodation units must be maintained in a tidy condition.

All units will be inspected before being used. Any units found not to be of the required standard for safety and condition shall be rejected from site.

#### Labour Accommodation of Site 13.2.

Accommodation units to be installed must adhere to the following requirements:

- All units must be of good quality and condition.
- All units must be electrically powered and tested.
- Fire Extinguishers must be provided in all accommodation units in sufficient numbers.
- Steps to accommodation units must be soundly constructed to enable safe access/egress and adequately illuminated
- Accommodation units must be cleaned on a regular basis and all packaging waste disposed of into waste skips with doors.



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- Infestation control measures must be employed once the accommodation area is established.
- All water and waste provision must comply with local laws and regulations.
- Fire blankets must be provided in units with cooking facilities.
- Areas around accommodation units must be maintained in a tidy condition.

# 14. Environmental

#### 14.1. Noise Pollution

# Potential Impact

Nuisance to surrounding population due to increased noise level

### Mitigating Measures

- Construction activities shall be carried out during day time unless otherwise permitted
- · Vehicle movement during night time will be avoided to the extent possible
- Equipment and vehicles shall be properly maintained to avoid noise emissions louder than necessary

# 14.2. Air Pollution

# Potential Impact

 Dust nuisance from site due to vehicular movement and wind borne surface dust

# **Mitigating Measures**

- Water sprinkling shall be done for dust suppression to an extent reasonably possible
- Construction roads will be suitably stabilized to avoid dust and ensure smooth traffic flow
- Vehicle wheels shall be cleaned from soil prior to entering the public utility road to an extent reasonably possible
- · Fill material shall be compacted properly to avoid soil erosion by wind
- Regular monitoring of the air shall be carried out to ensure that there are no excessive occurrence of dust

### 14.3. Pollution of Surface and Ground Water

# Potential Impact



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- · Pollution of surface and ground water
- Pollution of surface water with suspended solids and subsequent siltation
- Occurrence of water borne diseases

# Mitigating Measures

- Equipment and vehicles shall be properly maintained to oil and fuel leakages
- . Drip trays shall be used under stationary engines (generators etc.)
- · Toilets shall be connected to proper septic tanks with soak pits
- · Fill material shall be compacted properly to avoid soil erosion by rain
- · Earthworks shall be sloped properly to avoid soil erosion by rain
- Site shall be graded appropriately to avoid standing water

# 14.4. Damage to Land

# Potential Impact

- · Increase in soil erosion
- Flooding during rainy season
- Loss of trees and habitat

### Mitigating Measures

- · Fill material shall be compacted properly to avoid soil erosion by rain and wind
- Earthworks shall be sloped properly to avoid soil erosion by rain
- Proper drainage arrangements shall be maintained to avoid flooding
- · Trees shall be replanted if required by construction activities

# 14.5. Socio-economic and Cultural Impact

# Potential Impact

- Immigration of outside labour force
- Stress on local resources like land, water and sanitation
- · Friction between workers and local population
- Development of squatter slums
- · Inducement of traffic congestion and road safety hazards



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# Mitigating Measures

- To the extent possible local labour shall be employed
- · Workers shall be housed in an appropriate labour camp
- Effective communications with the local population shall be maintained and their genuine problems caused by the construction activities shall be solved
- Local roads shall be upgraded if required by the construction activities

# 15. Attachments

- · Electrical safety inspection check list.
- · Site vehicles inspection checklist.
- · Pep talk / Tool box meeting format.
- Accident investigation Report.
- · Welding and gas cutting set inspection checklist.
- · Fire Extinguisher inspection format.

# Allotment of SAFETY equipment to laborer in day to day basis

	FAFFTY TON	NUNIC /	TOOLBOY BECOME		
ATE &	TIME: 21/0/2018 - 04:00	-	FORMATE NO :-	HSE/HO/001	
RAININ	NGTOPIC: Malrial Storege 9 Hor	USK.		0	
	T/SITE/LOCATION: 2864-IND GOD			DATE OF REV :-	
have	attended the training on above topic been cor ensure to implement it at my	ducted I	by safety departmen	t of STPL and have fu	lly understood and
R.NO	NAME OF ASSOCIATE / PERSON	WOLK ale	DESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
1	Motidal	1	itter	Prined	mathicilli
2	James	1	nason	20	Down
3	Taleb Sli.	Helper		20	10 m 15
4	Mohinuddin Saikh	1	Helper	20	121
5	Johnson Jakom		Helper	00	4
6	Jahinul islam	Helper		20	JOHRUL
7	Sohon shi saikh	1	Helper	20	DOHABRE
8	Ismail Blaikh		Helper	20	AMINGL
9	Aminul Islam		Helper	80	-
10	Now Alem		Helper	00	
11	Reju Singh	1	mason	00	Key a giny
12	Mohon Ali	H	efel	80	BACACHIA)
13	**				
14	v v				
15					
NAME OF TRAINER Umakont Shorma			Antinsia.	NATURE	
HOUR	S OF TRAINING: 04:00 8m 70 0	4:30	Pm		



			OOLBOX RECORD	Variable Section 1	
	TIME: 28/01/2017 - 11:0	orm	FORMATE NO :-	HSE/HO/001	
RAINING TOPIC: USE Proper PPEIS REV NO:			0		
	SITE/LOCATION: 2864-IND Crope			DATE OF REV :-	
have a	attended the training on above topic been cor ensure to implement it at my	work are	y safety departmen a to make the work	t of STPL and have ful place moresafer.	lly understoo.
R.NO	NAME OF ASSOCIATE / PERSON		DESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
1	mobidul Islam	FI	Her	Prinod	mothicity
2	mot Jomes Ali	M	asom	Primod	Jones
3	Isnaid Shaikh	H	eljer	Prined	
4	Rosu Singh	1	nasom	Primed	Ryusi
5	mehor Ali	1	Helper	Binod	P. Ballin
6	Samad Ali	1	lelper	Brimod	Sarratt
7	Juhirul Islam	Helper Helper		Prinod	JOHRU
8	sohon Ali soinh			Primed	SQHARA
9	Noor Alam	1	teljer	Prinod	AMINOL
10	Aminual Islam	H	eljer	Briored	AMINUL
11	mohizuddin Shaikh	1	relper	Primed	1
12	motion Ali	1	ldper	Primod	800
13					
14					
15					
NAME OF TRAINER Umakend Shoring		Susila	NATURE		
HOUR	S OF TRAINING:- 11:00 AM TO 11:30	Bin			
CONC	ERN ENGINEER			CONSTRUC	TION MANAGE



_	SAFETY TRAINING	G / TOOLBOX RECOR	D	
ATE &	TIME: 04/02/2017 - 02:30 Pm		HSE/HO/001	
RAININ	IGTOPIC: Work at hight	REV NO :-	0	
ROJEC	T/SITE/LOCATION: 2864-IND Octoal No	gor	DATE OF REV :-	
have a	attended the training on above topic been conduct	ed by safety departmen	nt of STPL and have fu	ully understood and
R.NO	ensure to implement it at my work NAME OF ASSOCIATE / PERSON	DESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
1	mobidul Islum	Ritter	Bined	mentalle
2	Jemes Ali	Mason.	-00-	Jones
3	mehirudelin Shaikh	Helper.	-Do -	
4	Aminul Islam	Helper	- 00 -	
5	Noor Alam	Helper	- Do -	
6	75 mail Shaith	Helper	-Do-	
7	Schar Ale Shaikh	Helper	-Do-	State All to
8	Juliouse Islam	Helper	-00-	AMTONUL
9	mohar Ali	tedper	-Do-	JOHRU
10	Somod Ali	telper-	-DO-	Samado
11	Roju Singh.	Mason	- Do' -	AMIN Si
12	mohon shi.	Helper	00	1
13				-2003
14				
15				
NAME	OFTRAINER Umakant Sharmer		STISIG	NATURE
HOUR	SOFTRAINING: 02'80 70 03:00 Pm	72 HRS.		
CONC	ERN ENGINEER		CONSTRUC	TION MANAGER



	لتعلم			
		FORMATE NO :-		
ATE &	TIME: 28/02/2017 06:20 Am	EHS/HO/001		
RAININ	G TOPIC: Meterical Storage & house to	0		
ROJECT	/SITE/LOCATION : 2869 - IND Grop	DATE OF REV :-	11000 6.00	
1.6	ave attended the training on above topic been co understood and ensure to implement i	nducted by safety depa t at my work area to ma	rtment of STPL Group ike the workplace safe	and have fully
SR.NO	NAME OF ASSOCIATE / PERSON	DESIGNATION	CONTRACTOR	SIGNATURE
1	Hussain Mi	Helper	Shahidul	Hussaim
2	Sahaz Ali	Helper	le .	
3	Jomete Ali	Hulpir	*	
4	Satisful Islam	Helper	4	Saffquelssla
5	Rahim Badshah	Maron.	,	Rahim Bads
6	Rakibul Sexlam	thelpoer	4	Rakibulssla
7	Transidul Islam	Helper	4	Jahidul 12/am
8	Aimal Hague	melper	.5	Airmal Hague
9	Sabes Ali	Helpez	4	SabesAli
10	Rakibul Islam	thelper	ė	Rakibul 186
11	Samidul Islam	Ritter	4	Samidulesta
12	Shahidul Islam	Retter	14	Shahidw Syla
13			4	
14			4	
15				
NAME OF TRAINER ALLSysti Boros			sign sign	NATURE SOND
HOURS OF TRAINING: 06:20 am to 06:40 am			25 mont	ঠ
CONCE	RN ENGINEER		CONSTRUC	TION MANAGER



	SAFETY TRAINING	G / TOOLBOX RECOR	D	
ATE &	TIME: 06/03/2017 07:00 Am	FORMATE NO :-	EHS/HO/001	
	IGTOPIC: Proper use PPE,5	0		
ROJEC	T/SITE/LOCATION: 2869- IND GOOD	DATE OF REV :-		
1.6	nave attended the training on above topic been cor understood and ensure to implement it	ducted by safety depa	rtment of STPL Group ke the workplace safe	and have fully
R.NO	NAME OF ASSOCIATE / PERSON	DESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
1	Sanjary Rabha	Capour		Sagger a
2	Diganta Rabha	Helper	-40-	Digunta Rach
3	Dieganta Rabba	Heper	-do-	iganto Ra
4	Kanak Nath	Helpes	-do-	kmak and
5	Rupak Groyari	Helper	-do-	Rupak
6	Ranjet Rabha	Helper	-do-	Ranjit Rab
7	Samudra Math	Helper	-do-	gri samudret
8	Agay Nath	Rater	-do-	Hiny Nath
9	Kanak Basumatary	Helper	-do-	KanaH Bosu
10	Singit Narzany	thelper	-40-	Sandit
11	Mahammad S. Ali	Helper	-do-	M.A.
12	Jientu Rabha	Helper	-90-	Junter
13	Bijoy Raswone	Masom.	-90-	Rithy Pas
14	Mayoripyoti Kakoli	Helpel	-do-	N. Kakali
15	Raju Strigh	Ritter	-do-	thickopiting
NAME OF TRAINER ALLEST GOZO			Alaky yo	HI BOND
HOURS OF TRAINING: 67:00 Am To 07:10 Am			10	muts.
CONC	ERN ENGINEER		CONSTRUC	TION MANAGER

HOURS OF TRAINING:- 07:50 Am To 08:00 Am			CONSTRUC	TION MANAGER
			101	rants
NAME OF TRAINER ALAKSYSTI BOND				NATURE BOYZO
15				
14	Typtish Maitya	Helpier	- do -	Ty otton Bounga-
13	Diganta Rabha	Helper	-010-	-Digunta Rab
12	Rubul ch Das	thelper	-90-	sin Rubulo
11	Rayu Singh	Fidter	-010-	Sei Ly is
10	Asay Whath	Rither	- 040-	AND NAME



	7650	/ TOOL BOY BECOR		
bled a		/ TOOLBOX RECOR	EHS/HO/001	
	TIME: 27April 2017 - 06:40 Am	0		
	IGTOPIC: Gr. Satisfy Meeting	DATE OF REV :-		
PROJEC	T/SITE/LOCATION :- 2864- IND Grapal Proposed Annual attended the training on above topic been conducted.	2.00	and have fully	
1.6	understood and ensure to implement it a	it my work area to ma	ke the workplace safe	er.
SR.NO	NAME OF ASSOCIATE / PERSON	DESIGNATION	CONTRACTOR	SIGNATURE
1	Mohammad Rajuddin	Ritter	Binod	mahammad
2	Rayit Robha	Helper	- 00-	May 15 Ele
3	Rupak Croyari	Helper	- do-	Ranit Radha
4	Kamaluddin	Helper	- do-	thamal uddh
5	Diganta Rabha	Mason.	-40-	Digarita Rabh
6	Diganta Robba	Helper	-do-	Diganto Rabbe
7	Jinter Rebba	Helper	-do-	sintu Rabba
8	Julish Baispa	Helper	-00-	Tutish
9	Tasher Ali	Hulper	-do-	- T. ali
10	Mantaz Ali	Helper	- do-	4318187 OHOR
11				
12				
13				
14				
15				
NAME	NAME OF TRAINER ALAK jyot: Borro			Gerico NATURE
HOUR	S OF TRAINING: 06:40 Am 1. 06:5	SSAm	15 mits	Tro
CONC	ERN ENGINEER		CONSTRUC	TION MANAGER



L	hlid				
			FORMATE NO :-	EHS/HO/001	
	PRAINING TOPIC: Work at hight REV NO:			0	
	ROJECT/SITE/LOCATION: 2864-IND Cropal Phager			DATE OF REV :-	
1h	ave attended the training on above topic been	n conduct	ted by safety depar	tment of STPL Group	and have fully
SR.NO	understood and ensure to impleme NAME OF ASSOCIATE / PERSON	nt it at m	y work area to mak DESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
1	Tintu Rabba	4	ebour	Bishod	Jiwku Rabha
2	Diganto Rabha	1	ebour	Birod	Digapetapa
3	Diganta Rabha	L	ebour	- do-	Digamta
4	Julish Baisya	(	elour	- do -	
5	Rubul Das	P	nitri	- do-	Russia
6	Romjit Rabha	1	leboure	- do -	RailetRate
7	Kameluddin		lebour	-06-	Kamal &dde
8	Muntar Adi		Exter	-00-	CZHZKY OVE
9	Habinet Hagger		Rither	- alo-	Habermal be
10	Sahara Mali	1 73	Mason.	- do -	Schanpe
11	Taser Ali	ŧ	Lelpez	- do -	Tarur
12	Suleman	100	thelper	-do-	SOLAMA
13	Aagmat	1	kelper	-do-	(NOS) शबाउ
14	Salian	1	Helper	-90-	Solar
15	Atas Ali	1	helper	- do-	AF.
NAME	OFTRAINER Slakjysti Bor	20		water Sign	ATURE
HOURS	OFTRAINING: 15 monts				
CONCE	RN ENGINEER			CONSTRUCT	ION MANAGER

CONSTRUCTION MANAGER



	SAFETY TRAIN	ING /	TOOLBOX RECORD	)	
DATE & T	TIME: 07/05-/2017 - 06-30 A	m	FORMATE NO :-	EHS/HO/001	
TRAINING TOPIC: Work at hight			REV NO :-	0	
PROJECT	SITE/LOCATION = 2869- IND Cre	pal	Nagar	DATE OF REV :-	
1 ha	we attended the training on above topic been understood and ensure to implemen	conduc	ted by safety depar	tment of STPL Group se the workplace safe	and have fully r.
SR.NO	NAME OF ASSOCIATE / PERSON	1	DESIGNATION	DEPARTMENT /	SIGNATURE
1	Raijuddin	1	telper	Birnod	Raijuddin
2		1	telper Litter	-do-	- Lope Ainh
3	Raju Singh Rupak Croyari		elpier	-do-	4.
4					Raijudio Lapa Aigh Rulo K Gloyas
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
NAME	OFTRAINER ALabejyoti Bono			Certification Sign	NATURE
HOURS	OFTRAINING: 15 miles				
CONCE	RN ENGINEER			CONSTRUC	TION MANAGER



	SAFETY TRA	INING / TOOLBOX RECOR	D	
DATE &	TIME : 20 10 C 12017 - 11:00 A	FORMATE NO :-	EHS/HO/001	
TRAININ	IG TOPIC Sofe obeyeding Moch	ing Durighev NO:	0	
PROJEC	T/SITE/LOCATION: Kanduqueli (	Kendugueli Guwahati Assam DATE OF REV:		
11	nave attended the training on above topic be understood and ensure to implem	en conducted by safety depart	rtment of STPL Group	and have fully
SR.NO	NAME OF ASSOCIATE / PERSON	DESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
.1	Pardih masumder	Sony	Stivam	Percetip.m
2	Phonontown Hosons	Supervisor	Shivong	Manager
3	Baban Ray	Helper	Shiven	Bakon Ray
4	Chandon Ku Ray	Site Engg	Shiram	and an
5		00		
6				
7				
8				
9				
10			-	
11				
12				
13				
14				
15				1
NAME	OFTRAINER Umakand Shar		SIG	NATURE STATE
HOUR	S OF TRAINING:- 11:00 Am TO 1	1:30 AM		
CONC	ERN ENGINEER		CONSTRUC	TION MANAGER

# **EMERGENCY CONTACT NUMBER**

# **GOPALNAGAR SITE**

s.NO.	EMERGENCY CONTACT PERSON/SERVICES	OFFICE NUMBER	MOBILE NUMBER
1	Hospital (Barthakur Clinic)	0361-2970331/360	9613853213
2	Ambulance (Barthakur Clinic)		9577409350
3	Police Station	100/0361-2540136	
4	Fire Station	102	
5	Public Ambulance	108	
6	Safety PIIU		
7	Safety DSC		
8			
9	Dibendu Roy Chaudhary (PM) STPL		9830070787
10	Jahagir Ahmad Site Incharge (STPL)		9678182276
11	Debojit Das Site Engg. (STPL)		7002738274
12	Umakant Sharma (HSE Officer STPL)		9777292874

# RECORDS OF TRAININGS CONDUCTED DURING REPORTING PERIOD

	CALLED .				
DATE 8	TIME: 07/01/2017 - 63:00	INING/T	OOLBOX RECORE		
	NG TOPIC: Near mits first-Aid Re	try -	FORMATE NO :-	HSE/HO/001	
	T/SITE/LOCATION: 2864 IND GOOD			0	
I have	attended the training on above topic been con	ducted by	safety departmen	DATE OF REV :-	ully understand and
SR.NO	ansore to implement it at my	WORK area	to make the work	place moresafer.	any understood and
SK.NO	NAME OF ASSOCIATE / PERSON	D	ESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
1	mobidual Islam	bt	ter	- Birned -	massau
2	met Jomes Ali	M	ason.	-00-	Dones
3	Ismail Sheikh.	11	ulper	-bo-	4/30
4	Schor Ali Sheikh	14	elper	-D6 -	SUHO ARF
5	mobor Ali	H	elper	-00-	
6	mehirudelin Shaiks.	16	lper	- Do -	-
7	Aminul Islam	K	elper	- Do -	AMINUL
8	Samuel Ali	H	elper	-00-	Barradid
9	thor Alum	l.	uper.	-Do -	
10	Rogu Singh	M	ason	-00 -	
11	Juhired Islam	4	elper.	- Do -	JOIHAN
12		1			
13					
14					
15					
NAME C	OF TRAINER Umakant Sharm	9		Som SIGN	ATIME
IOURS	OF TRAINING: 03:00 Pm 70 03:3	80 Pm		SIGN	HIUKE
ONCER	N ENGINEER			CONSTRUCTION	ON MANAGER



	SAFETY TRAINING	TOOLBOX RECOR	0	
DATE & TIME = 2/10/	HSE/HO/001			
TRAINING TOMC: malrial Storage & House REV NO:			0	
PROJECT/SITE/LOCATION: 2864-IND Copal Hogor			DATE OF REV :-	
I have attended the training of	n above topic been conducted	by safety departmen	nt of STPL and have fo	ully understood and
CONTRACTOR OF THE PARTY OF THE	to implement it at my work as DCIATE / PERSON	DESIGNATION	DEPARTMENT / CONTRACTOR	SIGNATURE
1 Motidal	1	Fitter	Prinod	metholill
2 James		Musan	20	Darso
3 Taleb Ali.		Helper	do	7
4 Mohinuddis	Saith ,	Helper	20	STATE OF THE PARTY
5 Jahinul Jala	771	Helper	20	ATTE
6 Jahinul is	lam	Helper	20	JUHRUL
7 Sohon Ali	Saith .	Helpel	20	DOHARRY
8 Tamail sho	ivi.	Helper	20	AMINUL
9 Aminul 7sl		Helen	80	39
10 Noor plan		Helper	Do	44
11 Reju Singh.		maron	80	Kaj a sing
12 Mohon	ali K	elel	80	BRACKA
13				
14 <sub>2</sub> v				
15				
NAME OF TRAINER Umokont Stormer			Anom Signature	
HOURS OF TRAINING:-	4:00 Pm 70 04:30	Pm	Z I I I I I I I I I I I I I I I I I I I	
CONCERN ENGINEER		CONSTRUCTION MANAGER		



		INING / T	OOLBOX RECORE	)	
DATE & TIME: 28/01/2017 - 11:00 Am FORMATE NO:			HSE/HO/001		
TRAINING TOPIC: USE Proper PPE'S REV NO:			O .		
PROJECT/SITE/LOCATION: 2864-IND Cropal Hagar			DATE OF REV :-		
I have a	attended the training on above topic been cor ensure to implement it at my				lly understoo
SR.NO	NAME OF ASSOCIATE / PERSON	DESIGNATION		DEPARTMENT / CONTRACTOR	SIGNATURE
1	mobidul Islam	Fitter		Prinod	prestille
2	pod Jomes ali	Mason		Primod	Jones
3	Isnaid Shaikh	Helper		Prined	
4	Rosu Singh.	n	rasom	Bringa	Larisin
5	mehor Ali	h	lelper	Binod	
6	Samuel Ali	H	elper	Primed	Sanatt
7	Juhirul Islems	1	telper	Bring	JOHRUL
8	sohon ali soint	1	relper	Brimed	SAHARAL
9	Noor Alam	11	eler	Primod	AMINUL
10	Aminual Islam	He	ljer	Brined	AMINUL
11	mohinuddin Shaikh	H	elfer	Primed	1000
12	motor at	H	dper	Primad	A10733
13		1			100
14					
15					
NAME OF TRAINER Umo Kerry Sharmey			SUSSIGNATURE		
HOURS	OFTRAINING: 11:00 Am TO 11:30	79m			
CONCERN ENGINEER		CONSTRUCTION MANAGE			



	SAFETY TRAI	NING /	TOOLBOX RECORE	)		
DATE & TIME: 04/02/2017 - 02:30 Pm FORMATE NO:			HSE/HO/001			
TRAINING TOPIC: - work at right			REV NO :-	0		
PROJECT/SITE/LOCATION: 2864-IND Gepal Hogor			DATE OF REV :-			
have:	attended the training on above topic been con ensure to implement it at my				illy understood and	
SR,NO	NAME OF ASSOCIATE / PERSON	DESIGNATION		DEPARTMENT / CONTRACTOR	SIGNATURE	
1	mobiekal Islam	Bitter		Bined	manicul	
2	Jemer Ali	Mason		-00-	Jones	
3	median delin Shaikh		Helper.	-Do -	84.	
4	Aminul Islem	1	telper.	- 60 -		
5	Hour Alan		Helper	- Do -		
6	Ismail Shaith	1	telper	-Do-	<b>自然是</b>	
7	Schor Ale Shaikh		Helper	-20-	State ug 9	
8	Julivest Islam		Helper	-00-	ANTOUL	
9	mohor Ali		telper	-DO-	JOIHRUL	
10	Somacl Ali		teelper	-DO-	Samado	
11	Raper Singh.	1	lason	- Do'-	of Min Sing	
12	mohon sti.	1	Helper	80	MAN N	
13					- Mes	
14						
15						
NAME OF TRAINER Umat out Shorms			SIGNATURE			
HOUR	S OF TRAINING: 02:30 70 03:00 8	1 72	HRS.			
CONCERN ENGINEER		CONSTRUCTION MANAGER				

# TRAININGS CONDUCTED AT THE GOPALNAGAR SITE - JANUARY TO JUNE 2017

# FIRST AID AND HIV/AIDS AWARENESS PROGRAM

Organized by: Shivam Transcon Pvt.Ltd.





Report

Name of Project: Construction of 17MLD clear Water Reservoir work in Gopalnagar Guwahati Assam.

#### 1. Purpose:

- The proposed of the program was to educate the labour about causes and prevention methods of HIV infection and AIDS.
- The proposed of the program was to educate the labour about causes of First Aid (General) Training required by site supervisor, Drivers and Labour.

#### 2. Time and Venue:

The program was organized on 13<sup>th</sup> April 2017, at our site office. The duration of the program was for 2 hours.





### 3. Trainer:

The trainer was provided by INDIAN RED CROSS SOCIETY ASSAM STATE BRANCH.



#### 4. Trainees:

All the personal of Shivam Transcon Pvt.Ltd. including Supervisor, Drivers, Operators and labour were present in the training session. A total of 45 trainees were present.



#### SCANNED COPY OF CONTRACTORS INSURANCE FOR WORKERS

### EMPLOYERS LIABILITY-OTHER THAN COLLIERIES POLICY SCHEDULE

: 321200/48/2017/2610 Policy No.

Cover Note No. Insured's Code

77725155

Insured's Name

Address

SHIVAM TRANSCON PVT LTD 5 ASSAM URBAN INFRASTRUCTURE INVESTMENT PROGRAM

59 ZOO NARENGI ROAD, GEETANAGAR, GUWAHATI-781021 Prev. Policy No. : -Cover Note Date .

Issue Office code 321200

Issue Office Name DO II GUWAHATI

Address AMARAVATI PATH CHRISTIAN BASTI

**GUWAHATI** 

GUWAHATI ASSAM 781005

TeL/Fax/Email / / D / NA

Tel./Fax/Email: (0361)2345277/2341773 / NA / digantaz@orientalinsurance.co.in

Agent/Broker Details

Dov.Off.Code : NE0000000145 MS. EASTER BRAHMA Agent/Broker : BA0000108115 MR. ANIL KR. AGARWALLA

RAMNARAYAN SHIW PRASAD & CO.G.S.ROAD, ULUBARI, GHY-

7,ASSAM.,GUWAHATI,ASSAM,781001

Tel/Fax/Email : 9864018463/9864018463//NA

Period of Insurance : FROM 15:00 ON 23/02/2017 TO MIDNIGHT OF 22/02/2018

Collection No. & Dt. CHQ 4045010921 - 23/02/2017

Gross Premium : 56,752 Service Tax: 8813

Stamp Duty : 59

Total: 67,565

Co-insurance Details NIL

#### Laws

Laws Indemnity against legal liability to all employees (Whether or not coming within the definition of the term Workmen) under the W.C.Act prior to the date of issue of the policy the Fatal Accidents Act, 1855 and at Common Law.

#### Risk Information

Place GUWAHATI

Date : 23/02/2017

For and on behalf of The Onertal Insurance Company Limited

In case of any query regarding the Policy please call Toll Free No. 1800 11 8485 and 011 33208485.

Authorised Signatory

CIN: U66010DL1947GOI007158. All the Amounts mentioned in this policy are in Indian Rupee

Page 1 of 3

IRDA Regn. No. 556 - Now you can buy and renew selected policies online at www.onentalinsurance.org in

### Details of Employees with Monthly Wages Above Rs.8000/-

Sr. No.	7.00	Cont ract Emps	Occupation	Estimated totalsalary /wages/other earnings	Value of food/grtrs/ other considerations	Estimated Total earnings	Table	Place of Employment
1.1	6		Builders - All employees engaged in shop or yard or in construction/demolition of buildings and other civil construction like dams, bridges etc. incl. Excavation Excl. blasting and tunneling	144,000		144,000	A	1

#### Details of Employees with Monthly Wages Above Rs.8000/-

Sr. No.	Est. No. of Emps	Cont ract Emps	Occupation	Estimated totalsalary /wages/other earnings	Value of food/grtrs/ other considerations	Estimated Total earnings	Table	Place of Employment
1 3	20		Builders - All employees engaged in shop or yard or in construction/demolition of buildings and other civil construction like dams, bridges etc. Incl. Excavation Excl. blasting and tunneling	96,000		96,000	A	2

#### **Contract Details**

ASSAM URBAN INFRASTRUCTURE INVESTMENT PROGRAM(AUIIP),3RD FLOOR, TRIPTI TOWER, Principal Name

GANESHGURI,

Site of work GOPALNAGAR, NORTH JYOTI NAGAR, KENDUGURI

Construction of storage reserviours of various capacities at three locations, approach road and allied works in South East Guwahati water supply projects(Package AUIIP/PR-1/GUW/WS/02A) Trade description

Address ZOO NARENGI ROAD, GEETA NAGAR, GUWAHATI

ASSAM State City KAMRUP

Pincode . 781021

Place GUWAHATI Date : 23/02/2017

For and on behalf of The Oriental Insurance Company Limited

In case of any query regarding the Policy please call Toll Free No. 1800 11 8485 and 011 33208485.

Authorised Signalory

CIN: U65010DL1947GQI007158. All the Amounts mentioned in this policy are in Indian Rupee

Page 2 of 3

IRDA Regn. No. 555 - Now you can buy and renew selected policies online at www.orientalinsurance.org.in

Attached to and forming part of policy number 321200/48/2017/2610

The Insurance under this policy is extended to cover risks of (as per forms attached). Total Annual Wages of all Employees \*120 times.

Total Premium in words Indian Rupues Soxty-Seven Thousand Five Hundred Sixty-Five Only

The Insurance under this policy is subject to Warranties & Clauses(as per forms, attached).

"It is hereby agreed that this policy doesnot cover medical expenses" as required under the provision 2A of the Workman Compensation Act, 1923(as amended) and described above.

Subject to adjustment in the terms of Condition 6. The estimated amount of wages/salaries & other samings on which premium is based.

In the event of a claim under the policy exceeding Rs. 1 lac or a claim for refund of premium exceeding Rs. 1 lac, the insured will comply with the provisions of the AML policy of the Company. The AML policy is available in all our operaing offices as well as Company's website.

Not applicable

Warranted that in case of dishonour of premium cheque(s) the Company shall not be liable under the policy and the policy shall be void abinitio (from inception).

In witness whereof the undersigned being authorised by and on behalf of the Company has/have herein to set his/their hands af DO II GUWAHATI on 23RD DAY OF FEBRUARY 2017.

Entered By MR. TRAILOKYA KALITA Examined By : MS. EASTER BRAHMA For and on behalf of The Oriental Insurance Company Limited

Authorised Signatory

Place: GUWAHATI

Date: 23/02/2017

驗



For and on behalf of The Oriental Insurance Company Limited

In case of any query regarding the Policy please call Toll Free No. 1800 11 8485 and 011 33208485.

Authorised Signatory

CIN: U66010DL1947GOI007158. All the Amounts mentioned in this policy are in Indian Rupee

Page 3 of 3

IRDA Regn. No. 556 - Now you can buy and renew selected policies online at www.orientalinsurance.org.in

### EMPLOYERS LIABILITY-OTHER THAN COLLIERIES POLICY SCHEDULE

Policy No.

: 321200/48/2017/2609

Prev. Policy No. : -Cover Note Date -

Cover Note No.

77725155

Issue Office code 321200

Insured's Code Insured's Name

SHIVAM TRANSCON PVT LTD & ASSAM URBAN INFRASTRUCTURE

Address

Issue Office Name DO II GUWAHATI

Address

INVESTMENT PROGRAM 158, ZOO NARENGI ROAD, GEETANAGAR, GUWAHATI-781021

AMARAVATI PATH CHRISTIAN BASTI

GUWAHATI

GUWAHATI ASSAM 781005

Tel/ExcEmail 1/0/NA

Tel./Fax/Email (0361)2346277/ 2341773 / NA / digantaz@orientalinsuranca.co in

Agent/Broker Details

Dev.Off.Code 1 NE0000000145 MS. EASTER BRAHMA

Agent/Broker = BA0000108115 MR. ANIL KR. AGARWALLA

Address

RAMNARAYAN SHIW PRASAD & CO.G.S.ROAD,ULUBARI,GHY-

7,ASSAM.,GUWAHATI,ASSAM,781001

Tel/Fax/Email : 9864018463/9864018463//N/

Period of Insurance FROM 14:57 ON 23/02/2017 TO MIDNIGHT OF 22/02/2018

Collection No. & Dt. : CHQ 4045010920 - 23/02/2017

Gross Premium

58,752

Service Tax: 8813

Stamp Duty : 59

Total: 67,565

Co-insurance Details . NIL.

#### Laws

Laws - Indemnity against legal liability to all employees (Whether or not coming within the definition of the term Workmen) under the W.C.Act prior to the date of issue of the policy the Fatal Accidents Act, 1855 and at Common Law.

#### Risk Information

Place GUWAHATI

Date : 23/02/2017

For and on behalf of The Oriental Insurance Company Limited

in case of any query regarding the Policy please call Toll Free No. 1800.11.8485 and 011.33208485.

**Authorised Signatory** 

CIN: U660100L1947GOI007156. All the Amounts mentioned in this policy are in Indian Rupee

Page 1 of 3

IRDA Regn. No. 556 - Now you can buy and renew selected policies online at www.onentalinsurance.org.in

#### Details of Employees with Monthly Wages Above Rs.8000/-

Sr. No.	Est. No. of Emps	Occupation	Estimated totalsalary /wages/other earnings	Value of food/qrtrs/ other considerations	Estimated Total earnings	Table	Place of Employment
3	20	Builders - All employees engaged in shop or yard or in construction/demolition of buildings and other civil construction like dams, bridges etc. incl. Excavation Excl. blasting and tunneling	96,000		96,000	A	2

#### Details of Employees with Monthly Wages Above Rs.8000/-

Sr. No.	Est. No. of Emps	Cont ract Emps	Occupation	Estimated totalsalary /wages/other earnings	Value of food/grtrs/ other considerations	Estimated Total earnings	Table	Place of Employment
1 1	5		Builders - All employees engaged in shop or yard or in construction/demolibion of buildings and other civil construction like dams, bridges etc, incl. Excavation Excl. btasting and tunneling	144,000		144,000	A	1

#### **Contract Details**

ASSAM URBAN INFRASTRUCTURE INVESTMENT PROGRAM(AUIIP), 3RD FLOOR, TRIPTI TOWER, GANESHGURI, GUWAHATI-781005 Principal Name

JONAKI NAGAR(UPPER HENGRABARI),NABA JYOTI NAGAR, Site of work

BASISTHA

Construction of storage reserviours of various capacities at three locations, approach road and allied works in South East Guwahati water supply projects(Package AUIIP/PR-1/GUWWS/02B Trade description

59,ZOO NARENGI ROAD, GEETANAGAR, GUWAHATI Address ASSAM

City KAMRUP 781021 Pincode ŧ

Place: GUWAHATI 23/02/2017



For and on behalf of The Oriental Insurance Company Limited

In case of any query regarding the Policy please call Toll Free No. 1800 11 8485 and 011 33208485.

Authorised Signatory

CIN: U66010DL1947GOI007158 All the Amounts mentioned in this policy are in Indian Rupee

Page 2 of 3

IRDA Regn. No. 556 - Now you can buy and renew selected policies online at www.onentalinsurance.org.in

Attached to and forming part of policy number 321200/48/2017/2609

The Insurance under this policy is extended to cover risks of (as per forms attached). Total Annual Wages of all Employees \*120 times.

Total Premium in words Indian Rupees Sixty-Seven Thousand Five Hundred Sixty-Five Only

The Insurance under this policy is subject to Warranties & Clauses(as per forms attached).

"It is hersby agreed that this policy doesnot cover medical expenses" as required under the provision 2A of the Workmen Compensation Act, 1923(as amended) and described above.

Subject to adjustment in the terms of Condition 6. The estimated amount of wages/salaries & other earnings on which premium is based.

In the event of a claim under the policy exceeding Rs. 1 fac or a claim for refund of premium exceeding Rs. 1 fac.the insured will comply with the provisions of the AML policy of the Company. The AML policy is available in all our operating offices as well as Company's website.

Not applicable

Warranted that in case of dishonour of premium cheque(s) the Company shall not be liable under the policy and the policy shall be void abmitto (from inception).

In witness whereof the undersigned being authorised by and on behalf of the Company has/have herein to set his/their hands at DO II GUWAHATI on 23RD DAY OF FEBRUARY 2017.

Entered By MR. TRAILOKYA KALITA

For and on behalf of The Oriental Insurance Company Limited

Examined By MS. EASTER BRAHMA.

Authorised Signatory

Place: GUWAHATI

Date: 23/02/2017



For and on behalf of The Oriental Insurance Company Limited

In case of any query regarding the Policy please call Toll Free No. 1800 11 8485 and 011 33208485.

Authorised Signatory

CIN: U56010DL1947GOI007158. All the Amounts mentioned in this policy are in Indian Rupee.

Page 3 of 3

IRDA Regn. No. 556 - Now you can buy and renew selected policies online at www.orientalinsurance.org.in.

1. Name of the project: Const	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	ctor agency: BINOD BODO / SHIVAM
3. Name of the employee: 5	BOLEMAN ALI
4. Age of the employee:	bo yrs.
5. Identification Mark:	Jole on chin
6. Nature of job (Designation	& department): Filler
7. Date of the employment:	
8. Length of the services in ye	
9. General Survey	: Health : Good/Fair/Poor
	Height: LCS c.m.
	Weight: 53 k.g.
10. Blood Group	: AB POSITIVE
11. Eye Vision	: B 6/6 @ 6/6.
Use of glass	: 100
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 74/ ~-
	: B.P. 110/70 mm dg.
	: B.P. 110/70 mm by.
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed 🔗 🔿
20. Hydrocele	: Present/Absent.
21. Present complains if any	: 200
22. Summary of Findings	: Heart disease
	: Hypertension N-0
	: Diabetes NO ( RBS = 101 mg / 01)
23. Recommendation if any for	any further investigation: - NA Dr. Nabajyoti Dutta
24. Comments/ Medical advice	if any: MBBS, DCP Regd. NoAMC /17573

Signature of the employees

Signature of the medical officer

I. Name of the project: Consti	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	ctor agency: SHIVAM / SHHIDUL
3. Name of the employee:	NUR ALAM
4. Age of the employee:	1 4.5.
5. Identification Mark: (	cut mark on @ foot.
6. Nature of job (Designation	& department): + Halpey.
7. Date of the employment:	
8. Length of the services in ye	
9. General Survey	: Health : Good/Fair/Poor
	Height: 164 c.m.
	Weight: 52 k.g.
10. Blood Group	: A POSITIVE
11. Eye Vision	: @ ele @ ele
Use of glass	: NO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 74/
	and the same of th
	: Heart Sound NAD
	: Remarks if any WA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed NO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: No
22. Summary of Findings	: Heart disease NO
	: Hypertension NO
	: Diabetes NO (RBS = 97 mg/dt)
23. Recommendation if any for	any further investigation: - NA Dr. Nabajyoti Dutta
24. Comments/ Medical advice	if any: NO 4 MBBS, DCP Regd. NoAMC/17573
NUTHOM	COPP
Signature of the employees	Signature of the medical officer

1. Name of the project: Const	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	ctoragency: SHIVAW/SAHIDUL.
3. Name of the employee:	HHIDUL
4. Age of the employee: 2	5 yn.
5. Identification Mark:	et work on left celf.
6. Nature of job (Designation	
7. Date of the employment:	
8. Length of the services in ye	iars: 1 montes
9. General Survey	: Health : Good/Fair/Poor
	Height: 167 c.m.
	Weight: 60 k.g.
10. Blood Group	B POSTTIVE
H. Eye Vision	: @ 6/6 @ 6/E
Use of glass	: 100
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 76/win.
	: B.P. 110/70~ Ws.
	: Heart Sound NAD.
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed NO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: Present/Absent. : Bjigartinic discomfort present
22. Summary of Findings	: Heart disease
	: Hypertension NO
	: Diabetes No (RBS = 88 mg/01)
23. Recommendation if any for	any further investigation: - NO Dr. Nabajyoti Dutta
24. Comments/ Medical advice	ifany: PPI advise & MBBS, DCP Regd. NoAMC/17573
Shahidul Islam	Signature of the medical officer

1. Name of the project: Const	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	ctor agency: SHIV AW
3. Name of the employee:	BIKI LAMA
4. Age of the employee:	3 428.
5. Identification Mark:	scar on R forearm
6. Nature of job (Designation	& department): - HANDIMAU
7. Date of the employment:	14/01/ 2017
8. Length of the services in yo	
9. General Survey	: Health : Good/Fair/Poor
	Height: 162 c.m.
	Weight: 43 k.g.
10. Blood Group	: A POSITIVE
11. Eye Vision	: (R) 6/6 (D) 6/6
Use of glass	: NO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 76/ win.
	: B.P. 106/70 w \$5.
	: Heart Sound NA5
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed
20. Hydrocele	: Present/Absent.
21. Present complains if any	: NO
22. Summary of Findings	: Heart disease
	: Hypertension 20
	: Diabetes NO (RBS = 96 mg/dt)
23. Recommendation if any for	The state of the s
24. Comments/ Medical advice	MBRS DCP
BICKY LAMA	AGE!
Signature of the employees	Signature of the medical officer

1. Name of the project: Co	nstruction of water storage reservoir at Gopalnagar (Package No. 02A)
	tractor agency: SHIVAM
	TRAILOKYA BARMAN
4. Age of the employee:	26 yns.
5. Identification Mark:	scav on (R) knee
6. Nature of job (Designation	on & department): Driver
	05/03/2017
	years: & months
9. General Survey	: Health : Good/Fair/Poor
	Height: 165 c.m.
	Weight: 58 k.g.
10. Blood Group	4 A +14.
11. Eye Vision	: (D 6/6 (D 6/6
Use of glass	: NO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	-: Pulse -c/m
	. B.P. 20176 months
	: Heart Sound NAD
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed NO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: NO
22. Summary of Findings	: Heart disease NO
	: Hypertension N.D
	: Diabetes ND
23. Recommendation if any f	or any further investigation: - NA
24. Comments/ Medical advi	ce if any: NA
Thomas.	Dr. Khalil Ullah Siddiqua
Signature of the employees	Signature of the medical officer

1. Name of the project: Constr	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contract	ctoragency: SIVNM / SAHLDUL
3. Name of the employee: S	ADDAM HUSSAIN
4. Age of the employee:	8 yns.
5. Identification Mark: M	ask on Right hand near bringure
6. Nature of job (Designation	& department): Haper
7. Date of the employment:	15/03/2017
8. Length of the services in yes	
9. General Survey	: Health : Good/Fair/Poor
	Height: 168 c.m.
	Weight: 60 k.g.
10. Blood Group	: A+~
11. Eye Vision	: @ 6/6 @ 6/6
Use of glass	* No
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 79 lm
	B.P. 120140 months
	: Heart Sound NAD
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed NO
20. Hydrocele	: Present/Abkent.
21. Present complains if any	: NO
22. Summary of Findings	: Heart disease NO
	: Hypertension NO
	: Diabetes MO
23. Recommendation if any for	any further investigation: - NA
24. Comments/ Medical advice	if any: NA
Saddor	KA SPANISHISH SKAPES
Signature of the employees	Signature of the medical officer Guwahati - 6

1. Name of the project: Cons	truction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	actor agency: SHIVAM / SAHIDUL
3. Name of the employee:	AINAL HAUG.
4. Age of the employee:	
5. Identification Mark:	
6. Nature of job (Designation	& department): Helper
7. Date of the employment:	
8. Length of the services in y	
9. General Survey	: Health : Good/Fair/Poor
	Height: 164 c.m.
	Weight: 61 k.g.
10. Blood Group	1
11. Eye Vision	: (B) 6/7.5 0 4/6
Use of glass	: NO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse Zoh
	: B.P. 120 Komty
	: Heart Sound NAD
	: Remarks if any NO
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed NO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: NO
22. Summary of Findings	: Heart disease WO
	: Hypertension NO
	: Diabetes NO
23. Recommendation if any for	any further investigation: - MA
24. Comments/ Medical advice	200
System of	Dr. Khalil Ullah Siddique
Signature of the employees	Signature of the medical officer

1. Name of the project: Cons	truction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	netor agency: SIVAM / SAHIDUL
	ROKIBUL ISLAM
4. Age of the employee:	
5. Identification Mark:	mask on (C) Eye
6. Nature of job (Designation	& department): Helper
7. Date of the employment:	
8. Length of the services in y	ears: Gamonths.
9. General Survey	: Health : Good/Fair/Poor
	Height: 160 c.m.
	Weight: 58 k.g.
10. Blood Group	1
11. Eye Vision	: @ 6/6 0 6/6
Use of glass	: NO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse & 1m
	: B.P. 130/go
	: Heart Sound NAD
	: Remarks if any
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed NO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: NO
22. Summary of Findings	: Heart disease
	: Hypertension MO
	: Diabetes NO
23. Recommendation if any for	rany further investigation: - / / A
24. Comments/ Medical advice	
Rakibul"	Dr. Khalii Utlah Siddique
Signature of the ampleyees	MEDICITY GUWANATH que

1. Name of the project: Constr	uction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contrac	toragency: SHIVAM/SAHLDUL
3. Name of the employee:	INVELUDDIN
4. Age of the employee: 2	yes.
5. Identification Mark:	ut mask on O leg
6. Nature of job (Designation of	& department): Ritter
7. Date of the employment:	11-03-17
8. Length of the services in yes	irs: 4 months
9. General Survey	: Health : Good/Fair/Poor
	Height: 165 c.m.
	Weight: 52 k.g.
10. Blood Group	: A POSITIVE
11. Eye Vision	: @ 6/6 O 6/6
Use of glass	: No
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse Zhm.
	: B.P. 13 = leo why
	: Heart Sound NAD
	: Remarks if any MA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed MO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: occasional epigartic pain
22. Summary of Findings	: Heart disease MO
	: Hypertension NO
	: Diabetes NO
23. Recommendation if any for	any further investigation: -
24. Comments/ Medical advice	fany: PPI advised
Signature of the employees	Signature of the modified officer

1. Name of the project: Const	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	ctor agency: SHIVAM/SAHIDUL
	THEOUT RAHMAN
4. Age of the employee: 2	
5. Identification Mark:	it mask on @ foot
6. Nature of job (Designation	& department): PHER
7. Date of the employment:	
8. Length of the services in ye	
9. General Survey	: Health : Good/Fair/Poor
	Height: 161 c.m.
	Weight: S2 k.g.
10. Blood Group	: B+
11. Eye Vision	: @ 6/6 0 6/6
Use of glass	: ND
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse Form
	B.P. 120/90 may
	: Heart Sound N AD
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed TO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: NO
22. Summary of Findings	: Heart disease NO
	: Hypertension NO
	: Diabetes NO CRBS = 95 mg/01)
23. Recommendation if any for	any further investigation: - NA
24. Comments/ Medical advice	
LOEN	Dr. Khalil Ullah Siddique
Signature of the employees	Signature of the medical officer

1. Name of the project: Cor	istruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/cont	ractor agency: SHIVAM / SAHLDUL
3. Name of the employee:	SHIDUL
4. Age of the employee:	29 yns.
5. Identification Mark:	cut mask on lett well
	on & department): Filter
7. Date of the employment:	A A TOTAL CONTRACTOR OF THE PARTY OF THE PAR
8. Length of the services in	years: 4 months
9. General Survey	: Health : Good/Fair/Poor
	Height: 167 c.m.
	Weight: 6/ k.g.
10. Blood Group	: B POSITIVE
11. Eye Vision	: B616 D616
Use of glass	· no
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 76/min
	: B.P. 130/80 mtgp
	: Heart Sound NAD
	: Remarks if any MA
18. Skin Condition	: NoFmal/Abnormal
	: Remarks on any skin disease noticed // 6
20. Hydrocele	: Present/Absent,
21. Present complains if any	: Epigastria descomtost present
22. Summary of Findings	: Heart disease NO
	: Hypertension NO
	: Diabetes NO (RBS = 88 mg/01)
23. Recommendation if any f	for any further investigation: - NO
24. Comments/ Medical advi	ceitany: NO PPI bedviced
Signature of the employees	Signature of the medical officer
antere or the employees	Signature of the nedical system

1. Name of the project: Cons	truction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	actor agency: SHIVAM / SHAHIDUL
3. Name of the employee: S	AFIKUL ISLAM
4. Age of the employee: 2	
5. Identification Mark:	ut mark on @ stoot
6. Nature of job (Designation	& department): Ritter
7. Date of the employment:	15-03-17.
8. Length of the services in y	ears: 4 moths.
9. General Survey	: Health : Good/Fair/Poor
	Height: 65 c.m.
	Weight: 53 k.g.
10. Blood Group	: "O" POSITIVE
11. Eye Vision	: @ 6/6 @ 6/6
Use of glass	: NO.
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 80 / min.
	: B.P. Role with : Heart Sound NAD.
	: Heart Sound NMD.
	: Remarks if any M .
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed NA .
20. Hydrocele	: Present/Absent.
21. Present complains if any	: No.
22. Summary of Findings	: Heart disease NO,
	: Hypertension NO.
	: Diabetes No. (RBS = 79 mg 1 81)
23. Recommendation if any for	any further investigation: - NA.
24. Comments/ Medical advice	
	Dr. Khalil Ullah Siddique Preprietor
Signature of the employees	Proprietor  MEMOSICULARIO Aigue  Signature of the medical officer

1. Name of the project: Cons	truction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	actor agency: SIVAM/BINOD
3. Name of the employee:	DIGLANTA RABHA
4. Age of the employee: 1	7 yrs.
5. Identification Mark:	lask on Face (Right side)
	& department): Helper
7. Date of the employment:	08 (03/2017
8. Length of the services in ye	
9. General Survey	: Health : Good/Fair/Poor
	Height: 162 c.m.
	Weight: 54 k.g.
10. Blood Group	: Otra
11. Eye Vision	: B 6/6 0 6/6
Use of glass	: NO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse == Fm'
	B.P.
	: Heart Sound N MD
	: Remarks if any NO
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed TO
20. Hydrocele	: Present/Absent.
21. Present complains if any	· NO
22. Summary of Findings	: Heart disease NO
	: Hypertension NO
	: Diabetes NO
23. Recommendation if any fo	rany further investigation: - NO
24. Comments/ Medical advice	ifany: KA
Digamo Rabi	Dr. Khalii Ullah Siddique
Signature of the employees	MEDICITY GUWAHATEL

1. Name of the project: Construction of water storage reservoir at Gopalnagar (Package No. 02A)

2. Name of the factory/contracto	ragency: SHIVAM
3. Name of the employee:	ARUN BORO
4. Age of the employee: 40	yrs.
5. Identification Mark: Sec	all on head
6. Nature of job (Designation &	department): CHOWKIDER
7. Date of the employment:	5/03/2017
8. Length of the services in years	
	: Health : Good/Fair/Poor
	Height: 160 c.m.
	Weight: 50 k.g.
10. Blood Group	"O" POSITIVE
11. Eye Vision	: @ 6/7.5 0 6/6
Use of glass	: MO.
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 74/om
	B.P. 110/74 W.
	: Heart Sound WAD
	: Remarks if any NO
18, Skin Condition	: Normal/Abnormal
-:	Remarks on any skin disease noticed 100
20. Hydrocele	: Present/Absent,
21. Present complains if any	: No
22. Summary of Findings	Heart disease NLD
	: Hypertension MO
	: Diabetes NO (RBS = 112 mg (01)
23. Recommendation if any for an	
24. Comments/ Medical advice if a	any: N A
F. B.	Dr. Khaki Ullah Siddique
Signature of the employees	Signature of the medical officer

1. Name of the project: Consti	uction of water storage reservoir at Gopalnagar (Package No. 02A)	
2. Name of the factory/contract	tor agency: SHIVAM / BINOD	
3. Name of the employee:	3. Name of the employee: RANJIT RABHA	
4. Age of the employee: 2	1 YRS.	
5. Identification Mark:	LASK on CL) Knee	
6. Nature of job (Designation	& department): Helper	
7. Date of the employment:		
8. Length of the services in yes	us: 2 moths.	
9. General Survey	: Health : Good/Fair/Poor	
	Height: 163 c.m.	
	Weight: 55 k.g.	
10. Blood Group	: B(+v2)	
11. Eye Vision	: B 6/6 0 6/6	
Use of glass	: no	
12. Hearing	: Normal/Abnormal	
14. Cardiovascular System	: Pulse Zohn	
	B.P. Idokgonto	
	: Heart Sound NAD	
	: Remarks if any NA	
18. Skin Condition	: Normal/Abnormal	
	: Remarks on any skin disease noticed NO	
20. Hydrocele	: Present/Absent.	
21. Present complains if any	: No	
22. Summary of Findings	: Heart disease YLO	
	: Hypertension W.O	
	: Diabetes NO	
23. Recommendation if any for	any further investigation: - MA	
24. Comments/ Medical advice	The state of the s	
~ Ramer Rab	Dr. Khelli Ullah Siddjque	
Signature of the employees	Signature of the medical officer	

1. Name of the project: Construction of water storage reservoir at Gopalnagar (Package No. 02A)

2. Name of the factory/contra	ctor agency: SHIVAM
3. Name of the employee:	CHANDRA RAJBANOISHI
4. Age of the employee: 6	
5. Identification Mark:	ut mark on @ side on head
	& department): CHOWKIDER
7. Date of the employment:	09/03/2017
8. Length of the services in yo	
9. General Survey	: Health : Good/Fair/Poor
	Height: 160 c.m.
	Weight: 53 kg.
10. Blood Group	: A POSITIVE
11. Eye Vision	· B 6/7-5 0 6/6
Use of glass	: MO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 72/m
	:B.P. 120/200 - Ho
	: Heart Sound WAD
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed "NO
20. Hydrocele	: Present/Absent.
21. Present complains if any	: 140
22. Summary of Findings	: Heart disease
	: Hypertension
	: Diabetes NO CRBS = 116 mg (01)
23. Recommendation if any for	rany further investigation: -
24. Comments/ Medical advice	
ehandra Rejlingsh	Pr. Mall Ullah Stealaup
Signature of the employees	Signature of the medical officer Guwahall - 8

1. Name of the project: Coust	ruction of water storage reservoir at cropainagar (rackage 110, 02.5)
2. Name of the factory/contra	ctor agency: SHIVAM / BINOD
3. Name of the employee:	RUBUL CH. DAS
4. Age of the employee: 2	2 42-5.
	cate on D leg
	& department): Mirtri
7. Date of the employment:	
8. Length of the services in ye	
9. General Survey	: Health : Good/Fair/Poor
	Height: 165 c.m.
	Weight: 55 k.g.
10. Blood Group	: A+n
II. Eye Vision	: @ 6/7.5 O 6/6
Use of glass	: 100
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse Fohm
	B.P. Diaokoway
	: Heart Sound MAD
	: Remarks if any NA
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed MO
20. Hydrocele	: Present/Absent.
21. Present complains if any	t
22. Summary of Findings	: Heart disease NO
	: Hypertension MO
	: Diabetes YNO
23. Recommendation if any for	any further investigation: - 1719
24. Comments/ Medical advice	ifany: MA
वीक्षायू में हम द	(A) Khatij Ullah Siddique
Signature of the employees	Signature of the medical officer

1. Name of the project: Const	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	eter agency: SHIVAM/ BINOD
	RUPAK GOYARI
4. Age of the employee: [	9 yes.
5. Identification Mark: C	(A)
	& department): HELPER
7. Date of the employment:	
8. Length of the services in ye	
9. General Survey	: Health ; Good/Fair/Poor
	Height: 164 c.m.
	Weight: 60 k.g.
10. Blood Group	: if the
11. Eye Vision	· 86/6 0 6/6
Use of glass	: 100
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse Fym.
	: Pulse # 1/m. : B.P. 1140 - 14
	: Heart Sound NAD
	: Remarks if any NO
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed MO
20. Hydrocele	: Present/Absent.
21. Present complains if any	an :
22. Summary of Findings	: Heart disease NO
	: Hypertension NO
	: Diabetes MO
23. Recommendation if any for	any further investigation: -
24. Comments/ Medical advice	if any:
RUPAK	Dr. Khali Ullah Siddique
Signature of the employees	MEDICITY GUWAHATI

1. Name of the project: Const	ruction of water storage reservoir at Gopalnagar (Package No. 02A)
2. Name of the factory/contra	ctor agency: SHIVAM / BINDD
3. Name of the employee:	
4. Age of the employee: 3	G YES.
5. Identification Mark:	
6. Nature of job (Designation	& department): HELPER
7. Date of the employment:	04/03/17
8. Length of the services in ye	
9. General Survey	: Health : Good/Fair/Poor
	Height: 165 c.m.
	Weight: 61 k.g.
10. Blood Group	: A+m.
11. Eye Vision	: ® 6/6 0 6/6
Use of glass	: NO
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse Z8hm
	: B.P. 100 60 with
	: Heart Sound NAD
	: Remarks if any NO
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed 🍴 🗥 🖰
20. Hydrocele	: Present/Absent.
21. Present complains if any	: NO
22. Summary of Findings	: Heart disease NO
	: Hypertension NO
	: Diabetes NO
23. Recommendation if any for	any further investigation: -
24. Comments/ Medical advice	if any:
Ajoy wath	Dr. Khalil Ullah Siddique
Signature of the employees	Signature of the medical officer

### HEALTH CAMP PHOTO ALBUM FOR THE MONTH OF JANUARY TO JUNE 2017

### MEDICAL CHECKUP

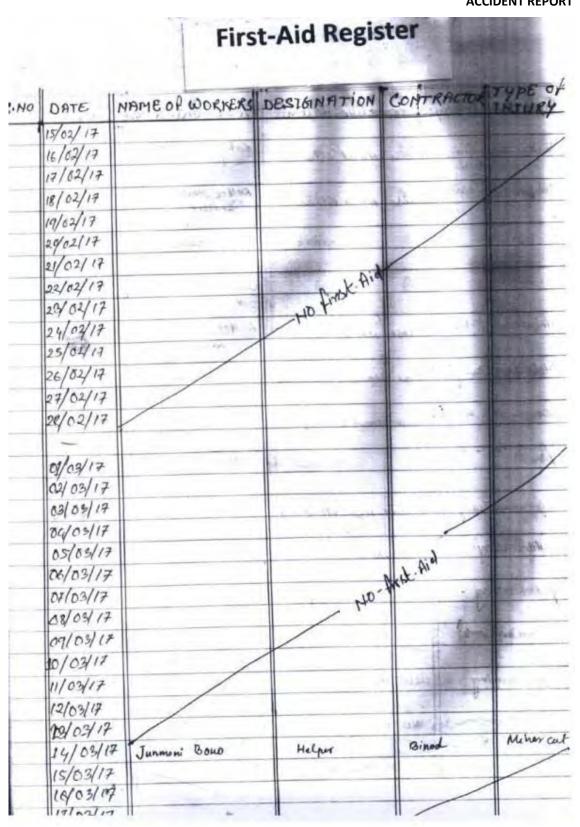


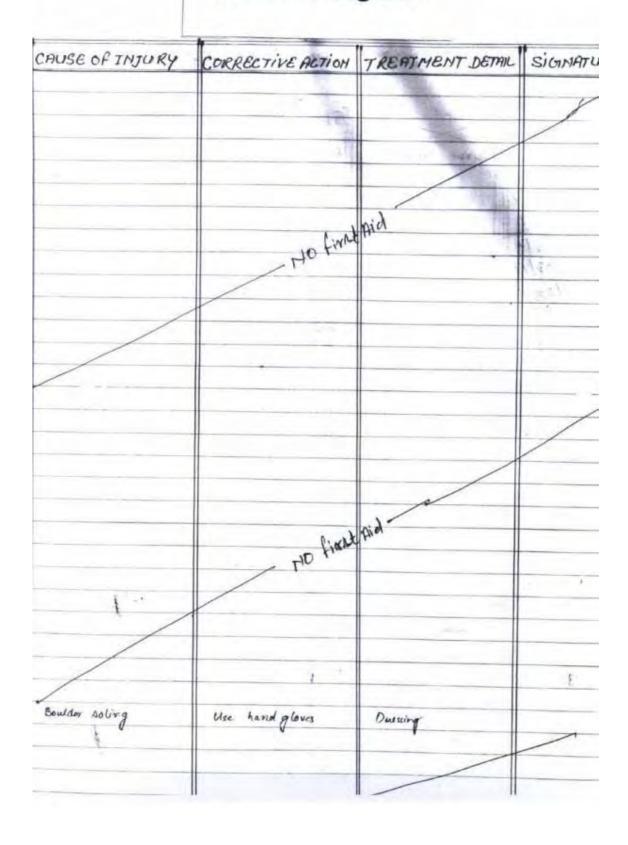






Appendix- XIV ACCIDENT REPORT





10	Date"	NAME OF WORKER	DEGIGNATION	CONTRACTOR	TYPE
2	2/03/17		1		
	3/03/17	-9-1	10		
2	4/03/17		38		101-
	5/03/17	Nurul Islam	helper	Satridul	Filinger C
12	6/03/17		115	1	
- 14	7/03/17		- 35		
25	8/03/17				
29	9/03/17		230		
	0/03/17		1776		100
	1/03/17		2		10.3
1	-		No first A		
10	1/0\$/17		- 140 h		1
	2/84/17			1	
0	3/04/17				
	4/04/17				2.5
11	5/04/17	JAMAL	Helper	Scidul	MINOR
06	104/17				123
	104/17	Jones Ali	Helperz	Satisful Bina	The second second
**	1/04/17	M. Rabha	thelper	Binod	Nail
-	64/17	Somudra Mith	Helper	Binod	Finger
11.	104/17	Inal haque		Shahidul	finger
101	104/17	Rahim Badb	shah	Shahidul	Line
10/	0417	Sahar Ali		Shahidul	Ming
12	104/17	tatieder Is	dam	Shahidul	ning
03/	05/17	D. Robba	Labour	Birnod	Ringur
18/	05/17	Jahidul Joslam	Helper	Saltam	Finger
13/	05/17	Munin Rana	Brixer	Siram Transcon put. Ltd.	Majorz i
20/	105/17			/	
21/	105/17		1.		Ŷ
22	105/17		No Frest- Aid		1
23/	105/17		No Fiber		
2.4	165/17		-		

CAUSES OF INJURY	CORRECTIVE	TREATMENT	SIGNATUR
	H		
Steel bonding	Use hand glaves	Dursing	
		1000	£1/-
	1	Frat Aid	1.5
	-81	1= 1=	
Steel Shifting	Ust Homel Colone	Dressing	
Pipe unloading	Use Hand Glone	Dressing	JOB
Shuttering board making Steel beinding	use bost	Dressing + Injection	M-R
Sheel bending	uschandglove	Band-Fild	Symuda.
Straiting Rod	use handglove	give Bound-Fird	-(গ্রামানাহত
*		give peracitament	Ration Bo
Rod cuting		pressing.	School Fri
Rod undoding		pressing -	GITTO MAN
Board Shikling	use handgloke	Band-AlD .	- And They
concreat supply	use boot	Dressing	su Johnsul
	Reter to CoM.C.H.	X-Ray; Drening; give medicine.	•
	Notinet. Pist		
	Holiay.		
	15		

shia	Dote	Home of Jonkon	Designation	contraction	Color Care
	27/05/17	sjoy thatong	Dumper	Sivam	Quatroic
	30/05/17	Satgel Islam	contect	Shahidul	brestain
	31/05/17	Sayamal Hayire	wolker	Shakedul	Fire
	02/06/17	Ajoy Hayong	Dumper torz	Stramscon	Crostric
	03/06/17				
	04/08/17		11 4		THE REAL PROPERTY.
	05/06/17		HOST AND		1000
	06/06/17	40	10		
	01/06/17	11	2.48		ME
	08/06/14	Sanidy Irlam	conter	Shakidul	Madect
	08/06/17	Rakibul Islam	coopter	Shahided	hand cutter
	09/06/17				
	10/06/17			11	1553
	11/06/17	-No-	.Finst A		1995
	12/06/17	140		. A	TOTAL
	13/6/17	Rakibul Islam	labour	Sharidul	Fearer
	14			i code	- Blaut
	15/6/17	Diganta Raba	Helper	Bimod	Monor Ping
	15/6/17/	Sgramal Hangae		Shahident	Angura
	15/6/17	Sankar Ray	Helper		by injur
	16/6/17			Lead	
	17/6/17			1	
- 1	18/6/17/			175694	
	19/6/17	>		ranal a	1
	20/6/17			11/2	Ele
	20/6/17			LA	1
	12/6/17		f	KH-	
	23/6/17		40.	int Aid	
	24/6/17		/		
	25/6/17				
	.1.117				

## First-Aid Register connective action corner of internol give omea - Apy Hogung crisce Omea Paracetamo Bry Hojong Omee No Elent DE Disprin Sanight 25% use handglove Rod carring Dressing No First Aid -Paracetamok Pipe shifting use handglove Band-Aid I garde houble Rod Shitting was handgles Bashed Aid staging use boot Dressing the first day

FORM VI [See rule 25 (1)]

Grok No-52

FORM VI
[See rule 25 (1)]

Government of Assam

STOF CHILD LABOUR
EMPLOYMENT OF CHILD LAGO: PA
IS A CRIME AGAINST SOCIETY

Office of the Assistant Labour Commissioner - Cum Licensing officer, Ulubari, Guwahati - 781007

	Liberioni	g omeen, oldbarn, our	variati-1010	,01
S.L/Licence N	7999	Date 05-05-2017	Fee naid Re	50.00

	LICENCE
4.1, LOUR - MULERY KE	anted to MS Shivam Transcom Private Limited and, Sectamagan Sunahah 21 under section 12(1) of the ad Abolition) Act, 1970, subject to the Condition Specified in Annexure.
2. This licence is for do	ng the work of Coars * Mc Horn
The state of the s	rto be indicated)  Secretary Assam Uzbam Imfrastructure Imvestment Program (AUIIP)  (Place of work to be indicated)
The licence shall ran	Signature and Seal of Hall Johnson (N. S.) Act, 1970  RENEWALS [rule 29] (date to be indicated)

THE PARTY TO	7 11211	LVVALS [rule 29]	4-1-1-1
	Date of renewal	Fee paid for renewal	Date of expiry
1,			
2.			
3.			
4,			
5,			

Signature and Seal of the Licensing Officer.

STOP CHILD LABOUR EMPLOYMENT OF CHILD LABOUR IS A CRIME NOW WITH IN CHEFY

#### GOVERNMENT OF ASSAM

## OFFICE OF THE REGISTERING OFFICER

(Certificate of Registration) EROM II (See rule 18(1)

51 No. 5 %

Date :05-04-7-017

			Co. Oh	1		
		7 of the Contract	Labour (Re	egulation and Abo	is hereby granted lition) Act, 1970 an	d the rules
	1.	Assam	Waban	- Intract	Trustains In	maline.
	2.	Progra	mme,	Ganesha	uni Gunaha	Ji-05
	3.					
1.	Nature of work	carried on in the E	stablishmer	nt.		
	a) Con	atmetion a de alloted	three enough	neservior	s, opproad	n no ad
	c)					
2.		dresses of Contra		Pri-Hd		
	2)					
	3)					
3.	Nature of work	in which contract i	abour is emp	ployed or is to be en	nployed.	
	a) Gansti		True no		pproach rec	ady
	c)					
4.	Maximum num	ber of contract to b	e employed	on any day throug	h each contractor.	
	Name of	Sandar et a un		Maximur	n Number to be emp	ployed
	-	Contractors		_	on any day.	
	1) 1300	apare.			Zan Ho	
	2)					
	31					

Other Particulars relevant to the employment of contract labour

Signature of Registering Officer with Seal Faglatering Officer
Under the Contract Labour (R August 1994
Ulubard, Governance)

Public	consulta	nouse	guring	CONSTRUCTION.

		Cropal P				Assam				
S.No.	Date	PHE connection Restoration (In case affected remarks)	Overburde n soil removal remarks	Road restoration remarks	Dust and Noise Problem remarks	Social safety arrangement caution tape/Barricade etc.by contractor remarks	Problem of local movement due to project activity remarks	Other problem faced if any	Name of the person with address/contact number	Signature
1	09/01/17	NO	NO	NO	NO	YES	NO	NO	Mas Himani	Hemane
2		, -							Ad-Ceppal Nagar Shive path	
*									MH NO- 96785-10149	
4 2	09/01/17	NO	NO	No	NO	YES	NO	NO	one Mariphiya	Turi prida
3									Shike path	
9									97061-07563	
3	09/01/17	NO	No	no	NO	YES	NO	NO	sn: Juga Robin	J.R.
									She was ports 99547-36405	
99										
16	07/01/17	NO	NO	NO	NO	Inne property	NO	NO	MH-70358 19070	
N									Sina path	
12									- part	

#### PUBLIC CONSULTATION SAMPLE COPY – AT WORKING LOCATION

Area/	Location	Cropal	Magar	. Crossa	hati	Amam				
S.No.	Date	PHE connection Restoration (In case affected remarks)	Overburde n soil removal remarks	Road restoration remarks	Dust and Noise Problem remarks	Social safety arrangement caution tape/Barricade etc.by contractor remarks	Problem of local movement due to project activity remarks	Other problem faced if any	Name of the person with address/contact number	Signature
1	29/02/17	NO	NO	NO	NO	Done Properly	NO	140	Binod Baro, 9678 42 5794	Band Bon
2	1 4.2								Olypsal Magas	J. Janes J.
3									Siva path	
4	20/02/9	NO	No	NO	NO	Ione Properly	No	NO	Breen Br. C. Ville Br.	BIPUL
5									5 hive path. 7035920564	00
6								7	572-Dipali Shuma add - Ocopul Magus	Allenta
7	20/02/17	NO	NO	NO	No	Dome property	NO	+NO	Shive path 9085764929	
8									2007.00	
9										
10	20/02/17	No	NO	NO	NO	Done property	No	NO	Rubul Ch. Das 7035819090	SIMP Day
11									Add - Orpalalage	
12									Stra path	

Area/	Location (	ropal	Maga	re creat	Danvar	i Assam				
S.No.	Date	PHE connection Restoration (In case affected remarks)	Overburde n soil removal remarks	Road restoration remarks	Dust and Noise Problem remarks	Social safety arrangement caution tape/Barricade etc.by contractor remarks	Problem of local movement due to project activity remarks	Other problem faced if any	Name of the person with address/contact number	Signature
1	1404/17	NO	NO	No	NO	dome properly	NO	No	the Bigal Charley Mid-Capal Nagar	BIPUL
2									9035920564	
3										-
4	16/04/17	No	NO	No	No	done properly	NO	No	Jaya Robbin Goopal Nagas	J. R.
5									Shive path 99847-36405	
6										00.0
7	16/04/17	No	NO	NO	NO	done properly	No	No	and Dipali Sharma Aid-Coppal Nagae	जी किया नी
8									9085764429	
9										
10	16/04/17	No	No	No	NO	done properly	NO	NO.	Ari Suman Rai And Gopal Nagar	Summay
11									shive path 812397430E	
12										

Area/I	Location	Ropal	Nagar	Gustal	nati	Aysen				
S.No.	Date	PHE connection Restoration (In case affected remarks)	Overburde n soil removal remarks	Road restoration remarks	Dust and Noise Problem remarks	Social safety arrangement caution tape/Barricade etc.by contractor remarks	Problem of local movement due to project activity remarks	Other problem faced if any	Name of the person with address/contact number	Signature
1	24/03/07	No	-10	No	No	Done properly	No	No	Dipali Sharma	31/40/80/
2									Shive path 9089764429	
3										
4	24/03/17	NO	NO	No	NO	Ione property	No	NO	sri Saman Ray add-Gopal Nagar	Survez
5									sheva path 8133974366	
6										
7	24/03/17	NO	No	No	No	Done property	No	No	Bimod Bono , 46784-25794	Prinal Bons
8									Siva path	
9										
10	29/03/17	<b>1</b> 00	No	No	No	Done proprietly	NO	No	Jaya Rabha Cropal Nagar	V.R.
11									shive path 99547-36905	•
12										

Area/	Location	Cropal	Nagar	- Oruco	itali	Asserm				
S.No.	Date	PHE connection Restoration (In case affected remarks)	Overburde n soil removal remarks	Road restoration remarks	Dust and Noise Problem remarks	Social safety arrangement caution tape/Barricade etc.by contractor remarks	Problem of local movement due to project activity remarks	Other problem faced if any	Name of the person with address/contact number	Signature
1	25/05/17	NO	Nο	NO	No	doneproperty	No	No	Jai Jydish Dainya Ozopal Nagal	System Sawage
2									Shina prin 8753877258	
3									4.00011014	
4	25/05/17	NO	NO	No	No	done property	No	NO	Bris Suman Rai Add-Capal Kagar	Sumoz
5									51 vn path 8133774306	
6										
7	23/05/17	No	NO	NO	No	done properly	NO	NO	Cropal Naget	Solain Boso
8									Shaca math 84029-63250	
9									101	
10	25/05/17	No	No	NO	NO	done property	No	No	Still Byral Choustony And - Copal Nagar	BIPUL
11									Shive path 7035920564	
12										

Area/	Location	Ceopal 1	Wagar	aucoal	nati A	Issam				
S.No.	Date	PHE connection Restoration (In case affected remarks)	Overburde n soil removal remarks	Road restoration remarks	Dust and Noise Problem remarks	Social safety arrangement caution tape/Barricade etc.by contractor remarks	Problem of local movement due to project activity remarks	Other problem faced if any	Name of the person with address/contact number	Signature
1	12 06	NO	NO	NO	NO	Done properly	No	Ко	Joya Rabha Ceopal Majar 9954736405	J.R.
2	12-06	No	No	No	No	Done	NO	ИО	Dipali Deni Osopal Magari 9085764429	Rollan
3	12 9	ND	NO	No	NO	Done	NO	NO	Bino Bono Ceopal Nagar 1678425799	Prinod P
4	12-06	Wo	NO	NO	No	Done	No	No	Phukan Boso Copal Nagar + 81350 83071	Boro
5	12 17	no	wo	NO	NO	Done properly	No	No	Ashok Basman Gopal Nagar 96583 23922	placent

#### INFORMATION AND NOTICE DISTRIBUTION TO THE NEARBY RESIDENCES

# SHIVAM TRANSCON PVT. LTD

# (17MLD CLEAR WATER RESERVOIR GOPALNAGAR GUWAHATI ASSAM) INFORMATION AND NOTICE DISTRIBUTION TO THE NEAR BY RESIDENCE

5.NO	NAME	ADDRESS WITH PHONE NUMBER	SIGNATURE	REMARKS
1	Mrs. Hamipuiya Baishya	Gopal Nagau, Shiva palu M-8755877 258	Hari Briya Gashwar	
2	Mu. Atul Chandua Nath	Copal Nagar, Shimpath M-9672510144	Abul . Noth	
3	Biju Das	Gopal Nogak, Shivepath M-8473539832	Bijy Da	
4	Anjali Barman	Gopal Nagar, Shivepolh M-8986835553	Anjeli Base	
5	Shaneshau Bouman	Gofal Magan. M- 98540 949 88	Biswojit Amron	
6	Hilima Deka	Gopal Nagar M-7035709380	Nilima Des	
7	Joya Rasha	Gopal Nogan M-9054736405	J.R.	
8	Phukon Bouo	Fepal Nagon M- 81350 830 91	Evni.	
9.	Raju Singh	Gopal Magan N- 8391504701	R. 5.	

PREPARED BY RAKTIM M.R. Barwali

HSE OFFICER
DYNA KOMA SKAWTIG

BEVIEWED BY

PLANNING OFFICER

APPROVED BY

PROJECT MANAGER

#### SHIVAM TRANSCON PVT. LTD

# (17MLD CLEAR WATER RESERVOIR GOPALNAGAR GUWAHATI ASSAM) INFORMATION AND NOTICE DISTRIBUTION TO THE NEAR BY RESIDENCE

S.NO	NAME	ADDRESS WITH PHONE NUMBER	SIGNATURE	REMARKS
1	scepali Devi	Gopal Magan M-9085764729	All forms	
2	Bhopen Bow	Gopal Nagau M- 85786 27548	Bhuben Boro	
3	Bikash Bow	9085552076	Gave 400	
4	Abhi Robha	Gopal Nagau M- 9454208566	Abhi ·	
5	Bubul Das	Gopal Nagur 4- 8135023071	Bobal.	
6	Mamori Das	Aogal Nagay 11- 4025 78 4429	(Mamani.	
7	Namita Bous	Gopal Magan M- 1854 7255 40	N. Boso	
8	Saheua Khahun	Cropal Nagan	Sohor -	
9	Ninu Pas	Gopal Nagar 4- 9502352200	Niso-Des.	

PREPARED BY TURKTIM H.D. BARVAN

Use officer Use a Cond Shuman

PLANNING OFFICER

REVIEWED BY.

PROJECT MANAGER

#### SUGGESTION AND COMPLAINT FORM

#### SUGGESTED COMPLAINT REGISTER AND COMPLAINT FORM

Date

Sr. No.

Date

The **Assam Urban Infrastructure Investment Program (AUIIP)** welcomes complaints, suggestions, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing \*(CONFIDENTIAL)\* above your name. Thank you.

Place of registration

Name		G	ender	Male Female	Age	
Home Address						
/illage / Town						
District						
Phone no.						
E-mail						
grievance below:	ion/Comment/Question hment/note/letter, plea	n Please provide the see tick here:	details (wh	no, what, where a	and how) o	f you
low do you want u	s to reach you for feed	dback or update on you	comment/	grievance?		
FOR OFFICIAL ( Registered by: (Nar	USE ONLY me of official registerin	ng grievance)				
f – then mode:						
■ Note/Letter ■ E-mail	ſ					
■ Verbal/Tele	nhonio					
		al(s) reviewing grievance				
Neviewed by: (Nam		in(s) reviewing grievance	<del>-</del> )			
Action Taken:						
Whether Action Tal	ken Disclosed:					
		•	Yes No			
Means of Disclosur	e:		110			

Type Complain Place

Status

Redress

Name and Contact No.

of Complainer

Remarks

Amarenofre
181 pont y
to pro for

12 Dated 5/4/17

Shivam Transcon Pvt. Ltd.

121 Fini Narangi Road, Geeta Nagar,

1 mwallatt 781021

Hi No 2416960, 2417548 Los : 0361-2410728

mail : shivam2000in@yahoo.com, shivamtranscon@gmail.com

Visit us our website : www.shivamtranscon.com

ROLALWS/STRL/79828/093

To.

The Team Leader, DSC, Assam Urban Infrastructure Investment Program Tripti Tower, Ganeshguri Guwahati-5

Contract: Construction of Storage Reservoirs of various Capacities at Three locations, Approach Road and Allied works in Guwahati. (AUIIP/PR-1/GUW/WS/02A&2B)

Sub: Refund of Electrical Charges - APDCL - for Shith - p of LT/HT Lines

Dear Sir,

With reference to the above subject, we are hereby requesting you to refund the already paid Electrical fees towards shifting of the LT Lines and HT Lines to APDCL at the following areas:

SI. No.	Location	Bill No.	Amount	Dated
1	Hengerabari	187	75,187/-	4/3/2017
2	Nabajyoti Nagar	186	5,36,700/-	4/3/2017
3	Kenduguri (11kV)	036	1,19,394/-	31/3/2017
4	Kenduguri (33 kV)	035	4,52,945/-	31/3/2017

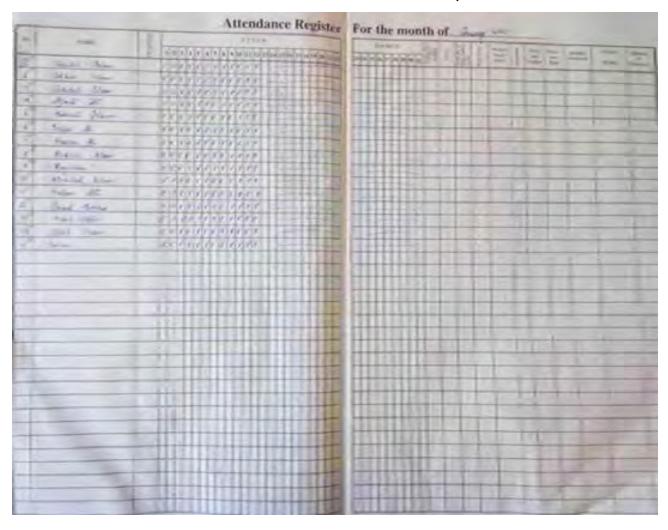
Please find enclosed the copies of paid slips for the above.

Thanking you. Yours Sincerely,

SNI Parte

Appendix- XX

Attendance sheets from the month oj Jan 2017 till June 2017



-	Attendance Register	For the month of	
COLE	400		
-	111111111111111111111111111111111111111		- Name
4			-
A stand from	0 1	Ala John Ala	
D Spin West	PARTITION OF THE PARTIT	ECHALICE I	
Garant.	PARTY AND	TATAL TO TATAL TO THE PARTY OF	
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AGHILL	PARTITION OF THE PARTIT	THE PROPERTY OF THE PARTY OF TH	
Nar dise	The fact of the fa	BY THE COL	
And	\$5 E 1000 E 100 E	6 A 2 A 2 A 7 C P	
tion	[#]#]#[#]#]#]#]#]#]#]#]#]#]#]#]#]#]#]#]	EGG 1997 COE	
Market Others		WHITE TO SEE	1
02-1	No and a second	TO THE PROPERTY AND THE	
- Marie		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
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**APPENDIX-DIBRUGARH** 

#### **APPENDIX 1**

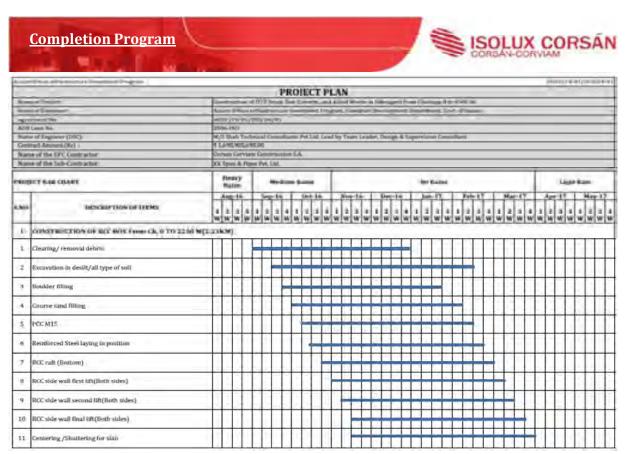
# DETAILED IMPLEMENTATION STATUS OF AWARDED AUIIP PROJECT 1 SUBPROJECT PACKAGES

Dibrugarh Storm-water Drainage Subproject

**Work-** Construction of RCC DTP Drain from Ch 0 to 9500m, Widening of Culverts and allied works in Dibrugarh

Contract package: AUIIP/PR-1/DIB/DR/01

Contractor: M/S ISOLUX Ltd



# **Completion Program**



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ps	Feeding (New York) on American Services	П	T	Т	П	Т	T	T	Т				1	T			П	Т	T	Г		F		Н	7	Ŧ	F			+	Ŧ	Ī	П	П
	REPAREING WORK CO. 2530 TO TAXS MELDERING																																	
1	Charing freeze of delice		1	Т	Н	+	+	F	F	H	H	Н	+	Ŧ	F	F	Н	Ŧ	F	F						T	Γ			Т	T	Γ	П	П
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1	Completencing of Exercise scales	П	I	Т			-	H	F				+		E			+	F	H						I								
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jor .	CONSTRUCTION OF BCC BOX From (to 2220 TO 3615 N	Dit	NW	rin	Am	CAL	1.34	S. K	CMI																7									
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DTP Drain, Box Culverts & Allied Works - Dibrugarh

# **Completion Program**

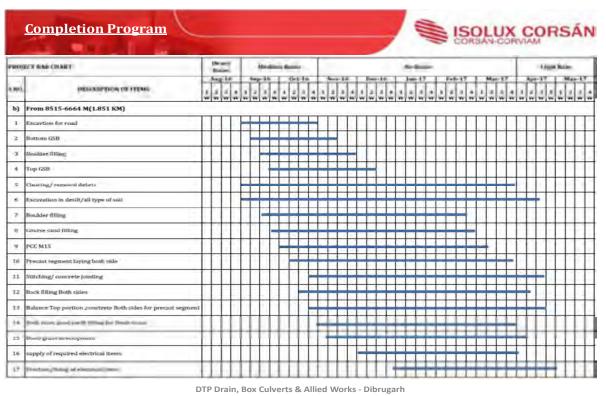


reop	ECT BAR CHART		leas Late			ted	lum	-	dese										N	+ M	etini											tilg	M R	ades	V.	
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5	Booder filling					10	-	-		+	H	H	-		-		-	*				I														
6	Course sand filling	Ī					1	-		+	ł	H	F		-	-	-		-			T		Ī				T					T	Ī		
7	PCCM15	1	1	T			1		-	+	Ŧ	H	F		-		-	+	Ŧ	+	-	Ī		1	1			T					T			
	Reinforced Steel laying in position	1								+	Ŧ	F	F				4	7	1	1	1	1		T	1			T						Ī	T	
9	RCC saft (Bottom)	T									-	F	F		_	-	-	+	+	+	+	Ŧ	÷	-		T							T	Ī		
10	RCC side wall first lift(Both sides)	T										H	F		_		7	+	Ŧ	+	Ŧ	÷	+	Ŧ	•		T	T					T			
n	RCC side wall second lift(Both sides)									T		-	F		_		-	7	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	-	T		T			П	1	T	li	Г	
12	RCC side wall final lift(Both sides)												-		-		4	+	Ŧ	+	Ŧ	ł	Ŧ	Ŧ	-			Ī								
13	Centering /Shuttering for slain									T									+		+	Ŧ	+	Ŧ	1					ì			Ī			
14	Reinforced Steel Laying in position	Ī					1				T			-	-	Н	-	+	Ŧ	+	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	•					T			
15	RCC roof slab concrete			T													-	+	Ŧ	+	+	Ŧ	ł	Ŧ	+	+	Ŧ		,				T	Ī	Г	
16	Back filling Both sides												-		_		-	+	+	+	Ŧ	Ŧ	+	Ŧ	-	-	+	H	F							
17	Construction Of Manholes																-	Ŧ	Ŧ	+		t	T	Ŧ			T				-		T			
18	Cushton/Over Surden/Earth Filling																1		+		1		1	+	1		+					•				
19	Construction of WBM road	Ī																	-	+	1	+	+	Ŧ	1	Ŧ	t					+	1			
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#### **Completion Program** ISOLUX CORSÁN PROJECT BAR CHART Bairs. No Bales percentage or reserv 21 sopply of required electrical items Erection/fixing of electrical items Painting / Shine boards and miscelleneous teem II LAYING PRECASY DRAIN a) From 9515-8515 M(1KM) 1 Excavtion for road Houlder filling Top GSB Clearing/removal debris Excavation in destit/all type of soil Boulder filling PCC M15 Precast segment laying both side Stitching/ concrete jointing Back filling Both sides Balance Top portion concerete floth sides for precast segme

DTP Drain, Box Culverts & Allied Works - Dibrugarh

photos of Person



DTP Drain, Box Culverts & Allied Works - Dibrugarh

# **Completion Program**



reop	RCY BAR CHART		Hali					-							_			_		Ret						ar I			- 1	ligher if	10.0	
	mental from out (1600)					7"			_		$\overline{}$				:	Ť	,		7"	1 4		7		1				_	1	4	$\mathbf{T}$	2 10
	1-1/2			T	T				T	T			T	T	1			T	Т			+	+		Н				F	Н	T	П
<b>c)</b>	From 6664-5526 M(1.138KM)																															
1	Execution for road				+	H		+	+	-																					li	
2	Bottom GSB					F		$\dashv$	+	H	-																	Ц	T			П
3	Bookler filling					1	-	-	-	÷	F		-							П												П
4.	Tup testi							-	-	H	-		+	+									1									П
5	Clearing/removal debcis				-	H		-	-				-						F		H											П
6	Excavation in desilt/all type of soil				-	F		-	+	+			+	+	-		H	-	+	H	H	-										П
7	Houlder filling	П	П	T	Т	F		4	7	Ŧ	F	Н	7	Ŧ	F	F	Н	-	Т	П	П	T	T	Г	П	Т		I	Т	П	Т	П
U	Course sand filling					,			-	÷	F		+	Ŧ	-	F		Ŧ	-													
9	PCC M15			T	T		-		+	ł	-		+	+	H	F		ł	F			T	T		П				T		П	П
10	Precest segment laying both side				T	T		-	+	F	F	Н	+	+	F	F	Н		F	H		T			П				T			П
12	Stitching/ concrete jointing		Т	T		Т			-	Ŧ	F		+	+	H	F		Ŧ	F	H	Н	-		Г	П		П		Т	П		П
12	Back filling lioth sides					T			-	÷	F		+	+		H	Н	÷	÷		H											
13	Balance Top portion conctrete Both sides for precast segment		1	T		T			T	-				+		F	Н	+	F	F		+	-						T			П
14	Both sides good earth filling for Doub Grass					T			-	Ŧ	F	Н	+	+		-	H	+	+	F		-							T			П
15	Doob grass development				1				1	-	F	H	+	+				-	+	F		+	1									П
	Topola of Copposed Statement Special				T				T	T	П	П	1		-	-		-	Ŧ	F		+	+	-	Н							П

DTP Drain, Box Culverts & Allied Works - Dibrugarh

# **Completion Program**



PROJ	ECT BAR CHART		eavy			Me	ediu		ains										No I	Rain	15										Ligh			d,
s.No.	DESCRIPTION OF ITEMS		ng-1			ep-1		_	Oct-		Ŧ	T	v-16	$\neg$	$\neg$	ec-				-17	$\exists$	$\neg$	eb-	T	Ŧ	1	r-17		$\neg$	hpr-		1		9-17
LINU.	DESCRIPTION OF TEMS	w	2 3 V W	ŵ	W	2 2 W V	3 4 V W	w	w W	3 4 W V	V W	w W	W	w W	w	2 : W V	3 4 V W	W	w W	W W	w W	w	2 W	3 4 W V	V V	v w	W W	w	W	2 W	3 4 W W	W	w W	3 W
17	Erection/fixing of electrical items					1				1			П			-	+	H			$\dashv$	+	+	+	+	+							$\square$	
181	Painting /Shine boards and miscefleneous items			Г		T	T	Г	П	T	Τ		П			T				-	4	4	-	+	Ŧ	F	H	-			T	Г		
d)	From 5526 -4697 M(0.829KM)		•			Ė	_	_	_	-	_		_	_	_	_	_	_		_	_	_	_	•	_	_	_					_	_	
1	focavtion for road				H	+	+	-	П		T					T							T		T					T	T	Г		
7	(Nation) GSB			П	. /	+	-	H			T					T								T	T		П						П	
3	Boulder Illing		T			-	+	H	H	-			П			1	T			П			1	1	1		П			1	1			
A	Top GSB		1	Т	П	T	-	F	H	+	Ŧ	-				T	T				П		1	1	1		П		T	1	T	T	П	
5	Clearing/remoyal debris	1	t	T		+	+	F		+	Ŧ	F	H		4	+	+			П		1	1	1	Ť	T	П		T	1	T	T	$\Box$	П
ń	Excavation is desitt/all type of soil		T			+	+	F	H	1	+	F	Н	4	4	+	ļ					T	T	T	T		П		T	1	1	T	П	П
7	Bookler filling	T	T	T		÷	÷	H		+	÷	F	H			T	T	П			T	T	1	1	Ť	t	П	T	T	1	t	t	П	
В	Course sand filling	T	1	t		ŀ	÷	F	H	+	÷		H			1	T	Ħ	Г	П	T	T	Ť	t	1	t	Ħ	Ī	T	1	Ť	t	Ħ	
g	POC MIS	1	1	t			-	F	H	+	+	F	Н	4	4	-	T			П		1	T	1	1		П	Ī	$\forall$	1	T	T		П
10	Precast segment laying both side	T	1	T	Ħ	1		F	H	+	+	F	Н	4	4	+	Ŧ		Г	П	T	T	1	1	Ť	T	П		T	1	T	T	П	
11	Stitching/concrete jointil	T	1	t	П	Ť	t		H	+	ŧ	F	Н			-	ļ	-			T	T	1	T	t	t	П	Ħ	T	T	t	t	П	
12	Back filling Both sides	$\dagger$	t	t	H	1	t		H	+	+	F	H		4	+	+			П	T		Ť	t	t	t	Ħ	Ħ	T	1	t	t	Ħ	
13	Balance Top portion constrete Both sides for precast segment	1	t	t	H	1	+	T		1	+	F	Н			1	ŧ		_			1	1	1	t	t	Н	ì		+	Ť	t	Ħ	$\sqcap$
14	Both sides good earth filling for Doob Grass.	1	+	T	Ħ	1	1		H	+	+	F	H	4		+	Ŧ					1	1	Ť	Ť	T	Ħ		T	1	T	T	П	$\sqcap$
15	Doob grass development		1	t	П	1	1	T	-	+	#					+	+						1	1	+	T	Н		1	1	+	t	Ħ	П

# **Completion Program**



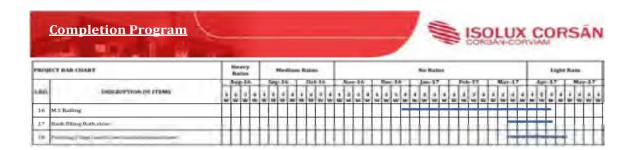
вор	ICT BAR CHART		Step State	ne.				n Hai									9		Leiter											ight	Rab		
-	T. William Co., or other states of the state		Alex	Bri.	1 3	7	4	- 0	4-1	1	12	mp-	16	Е	Desc	In:	Ε,	-	17	Ŧ		6-E			Mai	4.7	4	At	R-I		- 8	MA-E	4
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16	supply of required electrical items													-		+					t	t			Ĭ								
17	Erection/fixing of electrical items				П															H	H												I
m	Painting / Non-Year in and Establishment Person	- 1		I	П	I			L				T			T			-	+	H	-			Н	-							I
m	CONSTRUCTION OF PRECAST BCC BOX COLVERY	CTART.	9,14	akit, i	235	104	2.28	36.2	201	1																							Ī
A)	PRECAST RCC BOX FACTORY MADE																																
1	PCC Reinforcement		Н		H	-																					I						I
2	PCC Panels Concrete		H		H	+	-						1						1			Ī					I		Г				I
3	ROC Hox Reinforcement:	-	Н	+	Н	+	-			Ĩ																	1			í			Ī
à.	RCC Box Concrete			÷	H	+	H								Į.																		
8)	SITE WORK																								Ξ								
5	Excavation in desimatelling/all type of soil								-				t							t													
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7	Course sund filling				П						11																						1
0	PGC Panels placing	31)			П							-									-									i			
9	Rec Box Placing	<b>#</b>											-		-			===															
10	Buck filling floth sides				П										H	+		-	+	Ŧ	-		-										
11	Maging Con Marin		П		П		П				П			-	H	+		-	+	+	F	H	-				T						1

DTP Drain, Box Culverts & Allied Works - Dibrugarh

# **Completion Program**



PROJ	ECT BAR CHART		Ra	ins						ains											Rain	s				_							t Ra		
	NAME OF TAXABLE PARTY.		T	2-16		Т	ep-1	T		Oct		+	$\neg$	2v-1	$\mathbf{T}$		Dec-	T	+	T	1-17	-	T	eb-	T	+	T	r-17			pr-1	Т			-17
S.NO.	DESCRIPTION OF ITEMS	w w	2 W	3 W	w	w	2 3 W V	v v	w	2 W	3 W	ŵ,	w	v w	w	w	2 W	a 4	w	w w	3 W	ŵ	w,	2 W	w ·	* 3	v w	w w	ŵ	w	w v	1 4 V W	w	w W	3 W
12	Top Wearing Coat Reinforcement						T						T			-	Н	+	÷	F	Н	-	+	+	+	+	-					T			
13	M.S Railing:						T			П						-	Н	+	F	F	Н	-	-	-	+	+	F								
14	Precest Kerb/Pedestrian walk					П	T				П		T		Г			-	H	F		-		+	+	+			-						
15	Painting / Sign boards and miscelleneous items				ij	П	T	T		П		T	1	T	Т	Ĭ			Т			+		-	+	-	F		-		1	T	П	П	П
IV	CONSTRUCTION OF RCC BRIDGE AT 8500 M									_											_								_					_	Ξ
1	Glearing/ removal debris		Π			-	+	+	-				1			П					П	T		T	T		T				T				
2	Excavation in desilt/all type of soil						+	+				-	+	+	H			-																	
3	Boulder filling	-		-			-	+				-	-	+	F			+	-																
	Course sand filling						-	÷		$\Box$		$\pm$	+	÷	F			+	-						T							I			
5	PCC M15	-11			ú			1						÷																					
6	Abutment mass concrete first lift											+	+	t	۲			+	t	-															
7	Abutment mass concrete second lift						T		110	$\vdash$		7	+	÷	H	-	Н	+	H	F					T	1						T		П	
8	Abutment mass concrete third lift							1			4		+	÷	F	H	Н	+	F	F	H	٦		T	Т		Т								
9	Abutment mass concrete final lift						T				-	$\exists$	+	F	F			+	F	F	Н	-		T	T							Т			
10	Scuffolding arrangement for three no.s precast gutter												+	+					$\vdash$	F		-	-	-											
11	Reinforced steel laying for three no. gutters						T	Τ					-	Ŧ	Н					F		$\exists$	-	-	-							T			$\Box$
12	Concrete laying for three no.s gutters						I	I					-	+				-				-		+	-										
13	Scoffolding arangement for bridge slab											1						+																	
14	Reinforcement laying																	+	+					1	1										
15	Concrete laying		Г	П			T		П	П	П		T		Г							_		1	4								П		T



2	79	Name.	<b>GAPPING</b>	UNIQU IPENS	MATERIAL PROGRESSION MATERIAL MATERIAL	Manager news	MACHINERY MOELIZATION SYSTEM	DOORDINATION OF WESTERN ON OTHER DEPARTMENTS/AGENCES	START DATE- END DATE	FACTOR	RUNS	towns
	SecuriOn Otto	Two Box drain			Material procurement fast deen started	75 persons. deployed	Sufficient no's of Excavator, De-watering gumo, dumper/Tractor, transit mixer, needle vibrator deployed	izality shifting works a mady completed for communitien of Dou culvert at Ch. 0 M	Start date - 07- 12-2016 End date - 15-05- 2017	[ 	In addition to this designers working on soilt precast proposal and to be submitted shortly for the approval to the concerned authority	3 frants open for this purpose
2	From Ch. 7500 to 9515 M	Open drain			Manerial procurement in transit	75-80 persons  be deployed soon (Figure 12 compared compa	Sufficient no's of Excavator, De-watering gumo, dumper/Tractor, stands mixes needle vibrator, DG set will be deployed on or before 02-01-2017.		Start date - 25- 12-2016, 2nd date - 15-05- 2017			Flow diversion work completed
	Catemat Ch. 3656 M	RCC Bar railvert			Material procurenters will be started soon	Manpower myshirzation will be started as work has been started	Machinery mobilization will be started as work has been started	Only BSNL cable has been stated. Gas pipe line & electrical pole yet to be shifted	Start date - yet to be finalized. End daze - To be completed on or before 15-05- 2017		Precast to be adopted	
ı	Singe mon.	Scide Stide			Material procurement will be started soon	20-30 persons will be deployed soon	Sufficient no's of machinery will be deployed as necessary for the timely completion of works	One no electrical pole has down shifted 8536 M	Start date - 03- 01-2017, Exo date - 31-03- 2017			Road Diversion work sampleted



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## **APPENDIX 2**

## PHOTO ALBUM FOR THE MONTH OF JANUARY TO JUNE 2017

## **SITE NAME: DTP DRAIN PROJECT**





Activity: Concreting WIP

Month: February

Place: Chainage 8.2KM to 8.4KM



Activity: Concreting WIP

Month: May

Place: Chainage 00 Mtr



Activity: Bar Binding of open drain WIP

Month: April

Place: Chainage 8.5Km



Activity: Excavation WIP

Month: February

Place: 9500M



Activity: Open Drain Bar Binding WIP

Month: February

Place: 9500M



Activity: Precast Element Laying

Month: March

Place: Ch.8400Mtr



Activity: Site visit by Deputy Commissioner, Dibrugarh

Month: February

Place: 00M



Activity: Site visit by ADB officials

Month: April

Place: Ch.00Mtr



Activity: De-siltation of DTP Drain

Month: March

Place: Ch. 5500Mtr



Activity: : De-siltation of DTP Drain

Month: March

Place: Ch.1736Mtr



Activity: Twin Box Drain construction

Month: February

Place: Ch.00Mtr

**APPENDIX 3** 

## BUDGET – ENVIRONMENT, HEALTH AND SAFETY Construction of DTP drain at Dibrugarh– Sub project

Sr. No		Items	Unit	Rate	Apr-16	May 16	Jun-16	Jul-15	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan 17	Feb-17	Mar-17	Total Req.	Total Amount
() B	udget for HSE personnel																Nos.	
ì	HSE OFFICER	Officer	Nos	45,000.00	1	1	1	1	1	1	1	1	1	1	1	1	12	540,000
2	HES	Supervisors	Nos	21,000.00	1	1	1	1	1	1	1	1	1	1	1	1	12	252,000
3	HSE Stewards	Stewards	Nos	18,000,00	1	1	1	1	1	1	1	4	1	1	1	1	12	216,000
4	Skilld labaur	Skillid labar	Nos	15,000.00	4	1	1	1	i	1	1	-	1	1	1	1	12	180,000
5	Unskilld labaur	Unskilld labaur	Nos	12,000.00	1	1	1	1	1	1	1	1	1	1	1	1	12	144,000
) B	udget for Safety Precautio	ns & Equipment's												E-C-V				100000
6	PPE,s and safety Equp.	All	Req.	15,000.00	1	1	1	1	1	1	1	1	1	1	1	1	12	180,000
) Bı	dget for Environment Mo	nitoring & Safe G	uard															4
7	Monitoring & Safe Guard	All	Req	12,000.00	1	1	1	1	1	1	1		4				12	144,000



#### NOC FROM DIFFERENT DEPARTMENT

## Consent to Establish - Precast concrete block manufacturing unit - Dibrugarh



## Pollution Control Board:: Assam Bamunimaidam; Guwahati-21

(An ISO 9001:2008 & BS OHSAS 18001:2007 Standard Certified Organization)
Phone: 0361-2662774 & 2550258 Fax: 0361-2550259
Website: www.pcbassam.org

No.WB/DIB/T-606/15-16/42

Dated Guwahati the 24" Dec. 2015

## "CONSENT TO ESTABLISH"

"CONSENT TO ESTABLISH" is hereby granted to M/s. K.K. Spun Pipe Pvt. Ltd. for setting up a Pre-cast / Stressed Concrete Blocks manufacturing unit with installed capacity 200 (two hundred) nos. per month at Bongaii Gaon Lepetkata. Dist.: Dibrugarh (Assam) under Section 21 of Air (Prevention & Constant) of Pollution) Act. 1981 as amended under the following terms & conditions.

- No Air, Water, Soil pollution shall be created by the industry beyond the permissible limits prescribed by the Board. The industry would incorporate adequate pollution control measures before they put the plant into operation.
- To maintain the environment and ecology in the area provisions for planting selected species of tree within the compound and approaches along with provisions for park, garden and fountain shall have to be made. Measive aforestation will have to be made by the industry in the factory and township if any.
- 3. As per provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 any officer, employed by this Board on its behalf shall without any interruption, shall have the right at any time to enter the industry for inspection, to take samples for analysis and any call for any information etc. violation of this right will lead to the withdrawal of this permission.
- As per provisions of the Act, regular monitoring of Air, Water etc. is to be done by the industry from the location/points fixed by the Board and the report to be submitted to the board monthly.
  - Effluent carrying drains must be segregated from storm water drain. Any effluent generated must be treated and disposed after compliance of prescribed standard fixed by the Authority.
  - Standard linings on flat embankment of effluent pond shall have to be provided in the pond to prevent and control of overflow seepage and leakage of effluent to the nearby areas and ground water.
- To regularise the subsequent "Consent to Operate" the legal provisions of "Consent to Operate" as per Act and Coss Returns as per Cess Act. 1977 shall have to be timely adhered to.
- Gaseous pollution due to the burning of fuel to run engine boiler, kiln etc. should be controlled by adopting preventive measures adequately
- Solid waste that arises during the operation should be properly graded and disposed of scientifically without causing environmental degradation.
  - 10. For Low lying areas, special care is to be taken by the industry to prevent any overflow, seepage and leakage of effluent.
  - Fire warning (Alarm, Siren) is to be installed by the unit to guard against ancidental
    pollution/ mishap together with fire fighting devices.

ET.

Contd....p/2

- 12. All pipe connection, Joints, filtings etc. in the factory and plant are to be frequently checked and shall be leak proof all the time.
- Proper housekeeping and adequate maintenance his to be ensured/ enforced as per provisions of Acts.
- All unwanted Toxic Chemical/Fluid/Gases are In be taken care of as per prescribed norms.
- Production process is to be mondored and in the event of danger immediate shut down is to be ensured by the industry.
- 16. "CONSENT TO ESTABLISH" has been exited basing on the particulars furnished by the applicant and subject to imposition to further/more conditions if warranted by the subsequent development.
- 17 "CONSENT TO ESTABLISH" will be valid for one year from the date of issue of the order.
- 18. Healthy working environment for the worker must be maintained and there should not be health Hazard to the workers for in adequate arrangement for ventilation, dust removal arrangements should be adequate and full proof for the health of the workers. Their health should be regularly monitored.
- The unit must submit compliance report of action taken on the conditions given by the Board before commissioning of the plant.
- Adequate trees should be planted and maintained in the vacant space of the premises and all around the factory and township if any.
- 21. The Board will be at liberty to withdraw the "CONSENT TO ESTABLISH" at any time without notice, if necessary steps for prevention of pollution and prevention of degradation of environment is not taken by the industry as per mentioned conditions.
- 22. This issuance of the "CONSENT TO ESTABLISH" does not convey any property right in their real or personal property or any exclusive privileges nor does it authorize any injury to private property nor any invasion right any infringement of Central, State or Local Laws or Regulations.
- 23. The "CONSENT TO ESTABLISH" does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse except of the works specially instructed herein.
- 24. The applicant shall provide dust containment cum suppression system at their unit.
- 25. The industry shall not use any luel which may create Air pollution.
- 26. No Noise pollution is to be created by the industry.
- 27. Noise dampening wall shall have to be arrange.

Contd....p/3



- The industry shall provide hygienic drinking water and sanitary facilities employees.
- 29 The unit must comply to the National Ambient Air Quality Standards as per Schedule VII under Rule, 3(3B) of the Environment (Protection) Rules, 1985.
- Necessary steps are to be taken to maintain Ambient Air Quality standards in respect
  of Noise as per the Noise Pollution (Regulation and Control) Rules. 2000 as amended
  till date.
- 31. The Board will have the liberty to withdraw the "CONSENT TO ESTABLISH" if adequate pollution control and safety measures are and taken

#### Member Secretary(i/c)

Memo No.WB/DIB/T-606/15-16/42-A

Dates Gowahal the 24th Dec. 2015

Copy to:

M/s. K.K. Spun Pipe Pvt. Ltd. Bongali Gaon. Lepetitata. Dist. Dibrugarh (Assam) for information & necessary action. The "CONSENT TO ESTABLISH" is valid subject to fulfillment of above terms & conditions and subject to obtaining necessary permission from other Competent Authorities.

- The Deputy Secretary to the Govt. of Assam, Department of Environment & Forest, Disput, Guwahati – 6 for favour of information
- 3. The Deputy Commissioner, Dibrugarti district for favour of kind information.
- 4. The General Manager, DI&CC, Dibrugarh for favour of information
- 5 The Regional Executive Engineer, Regional Office Dibrugarh: Pollution Control Board, Assam for information & necessary action. The "CONSENT TO ESTABLISH" is valid subject to fulfillment of above terms and conditions and also subject to obtaining necessary permission from other Competent Authorities. This has a reference to their letter No. RO/DBR/T-4126/15-16/25/1521 dtd, 17-12-2015.

E!

Member Secretary(i/c)

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#### Consent to Operate – Precast concrete block manufacturing unit – Dibrugarh



Pollution Control Board:: Assam. Bamunimaidam; Guwahati-21

(An ISO 9001:2008 & BS OHSAS 18001:2007 Standard Certified C Phone: 0361-2652774 & 2550258; Fax: 0361-2550259

Website: www.pcbassam.org

No. WB/DIB/T-605/15-16/78

Dated Guwahati, the

M/s. K. K. Spun Pipe

Bangali Frank,

Lepethata,

P.O - Barebanun

Dist - Dibruganh (Assum)

Sub: "Consent to Operate" for the year 2016-2017.

Dear Sir.

With reference to your application in the name and style as mentioned above, the Board is pleased to grant the "Consent to Operate" under the Water Act / Air Act, for the period from 01" April, 2016 to 31" March, 2017 under the terms and conditions as per Appendix - A

You are also requested to apply for "Consent to Operate" for the year 2017-2018 within November, 2016.

Yours faithfully

Member Secretary(i/c)

Memo No. WB/DLB/7-605-/15-16/78-A, Dated Guwahati the Copy to:

1. The Deputy Secretary, Environment & Forests Department, Govt. of Assam, Dispur, Guwahati-6 for favour of information

The Deputy Commissioner, Dibrugarh for favour of information. 3. The General Manager, DI&CC, Dibrugarh for information.

- 4. The Regional Executive Engineer, Regional Office, Dibrugarh, PCBA for information & necessary action.

Member Secretary(i/c)

#### APPENDIX - "A"

#### A. STANDARDS FOR THE AMBIENT AIR QUALITY:

1. Ambient Air Quality standards shall conform the following:

> SO<sub>2</sub> - 50 μg/m<sup>2</sup> (Max)

> NO2 - 40 µg/m2 (Max)

CO – 02 μg/m³ (Max)

The measurement should be carried out for 24 hours preferable or for 8 hours randomly distributed.

 PM<sub>2.5</sub> & PM<sub>10</sub> must be as per attached MoEF Notification No. G.S.R. 825(E) dtd. 16<sup>th</sup> November, 2009 at Appendix – B.

#### B. IMPLEMENTATION OR FOLLOWING POLLUTION CONTROL MEASURES:

- The applicant shall provide dust containment cum suppressor system for their equipments.
- 2. The applicant shall provide latest air pollution control device in the plant.
- 3. The applicant shall use pulveriser in case they use coal in their process.
- 4. The height of chimney shall not be less than 30 (thirty) meters from the ground level.
- 5. The applicant shall take all necessary steps to keep the noise within permissible limits.
- 6. Green belt has to be developed by the industry around its periphery.

#### C. GENERAL STIPULATION:

- The issuance of this provisional Consent does not carry any property right in either real
  or personal property or any exclusive privileges nor does it authorize any injury to
  private property nor any invasion rights nor any infringement of Central State or Local
  Laws or Regulations
- The Consent has been given by the Board basing on the information furnished in the Consent application and the Consent will become automatically invalid if any changes or alternations or deviations except mentioned in this provisional Consent are lade actual practice from the particulars furnished in the application form.
- The Board reserved the right to review from time to time any of the conditions imposed in this Consent and make any reasonable variation there of to revoke any of the conditions as it thinks fit in accordance with provision of Air (Prevention & Control of Pollution) Act, 1981 as amended in 1987.
- The Consent does not authorize or approve the construction of any physical structure of facilities or undertaking of any works except to the extent of works specially instructed herein.
- The Consent is granted subject to payment of necessary "FEES" as per the Rule framed under Air (Prevention & Control of Pollution) Act. 1981.
- The Consent is valid up to 3/-03-20/2:... The industry shall have to apply for renewal of Consent with all required information fees etc. Nov! 24/6... for release of emission beyond 31<sup>st</sup> March, 24/2:... for consideration of the Board.
- Be it mentioned ha if any of the above conditions are not fulfilled this Consent shall be treated as cancelled.
- The unit should follow the guidelines of "The Plastic Waste (Management & Handling) Rules, 2011 as amended by (Amendment) Rules, 2011.

Member Secretary(i/c)
Pollution Control Board, Assam

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# MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

NEW DELHI, THE 16TH NOVEMBER, 2009

G.S.R. 826(E). In exercise of the powers conferred by section 6 and section 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules 1986, namely -

- (1) These rules may be called the Environment (Protection) Seventh Amendment Rules, 2009.
   (2) They shall come into force on the date of their publication in the Official Gazette.
- In the Environment (Protection) Rules 1986 (hereinafter referred to as the said rules), in rule 3, in sub-rule (38), for the words, brackets, figures and letters, "in columns (3) to (5) of Schedule VII", the words, brackets, figures and letters "in columns (4) to (5) of Schedule VII" shall be substituted.
- 3. For Schedule VII to the said rules and entries relating thereto, the following Schedule and entries shall be substituted namely: -

#### "[SCHEDULE VII] [See rule 3(38)] NATIONAL AMBIENT AIR QUALITY STANDARDS

	Contract of the contract of th		Concentration in Ambient Air					
S. No.	Pollutant	Time Weighted Average	Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement			
(1)	(2)	(5)	(4)	(5)	461			
1 8	Sulphur Dioxide (50_), µg/m²	Annual*	50 80	20	- Improved West and Gueke - Littraviolet fluorescence			
2 0	Nitropen Dioeder (NO <sub>4</sub> ), sigim <sup>4</sup>	Altracel * 24 tiques **	40 80	30 90	- Modified Jacob & Hochheiser (Na-Arsente) - Chemisprinescence			
10	Particulate Maller (size sees than 10 µm) or PM µg/m²	Annual 7 24 hours **	80 100	60 100	Gravimetric TOEM Beta attenuation			
7; -	Particulate Matter (size less than 2.5 µm) or PM <sub>11</sub> µg/m <sup>2</sup>	Annual * 24 nours **	40 60	40 80	- Gravimetric - TOEM - fleta attenuation			
5	Oxygen (O <sub>2</sub> )	it hours * 1 hour **	100 180	100 180	- UV photometric Charilluminescence Chemical Method			
6	Lead (Po) politic	Annual * 24 hours **	0.50 1.0	0.50 1.0	<ul> <li>AAS/ICP method after sampling on EPM 2000 or equivalent liber paper</li> <li>ED-XRF using Teffon filter</li> </ul>			
r <sub>y</sub>	Carbon Monavite (CO) ulgrm²	8 hours * 1 hour **	02	02 04	- Nori Dispersive Infra Red (NDIR) spectroscopy			
8	Ammonia (14H <sub>3</sub> ) µg/m²	Annual * 24 hours **	100 450	100 400	Chernium rescence     Indophenol blue method			
a _	Benzenw (C <sub>a</sub> H <sub>b</sub> ) pigm?	Atmust *	05	os	Gas cromstography based continuous analyzer     Adsorption and Georption follower by GC analysis:			
(1)	Benzo (o) Pyrene (Ball) -particulate phase tinly rights	Armani *	01	Ø1	- Solvers extraction followed by HPLC/GC analysis			
n.	Arsenic (Air)	Annus *	où:	ces	AAS/ICP metriod after sampling on EPM 2000 or equivalent filter paper			
:12:	Nickel (Ni) regim <sup>2</sup>	. Ammai *	20	20	- AAS/ACP method after sampling or EPM 2000 or equivalent liber pape			

5

Consent to Operate (Renewed) - Precast concrete block manufacturing unit - Dibrugarh



## Pollution Control Board:: Assam Bamunimaidam; Guwahati-21

Dated Guwahati, the 12/9

(An ISO 9001:2008 & BS OHSAS 18001:2007 Standard Certified Organization) Phone: 0361-2652774 & 2550258; Fax: 0361-2550259 Website: www.pcbassam.org

2017

No WB/218/7-605/15-16/126 To Ms. K. K. Spun Pipe Pyt. Ltd. Bongali Gara, Lapatkata, P.O. - Barbarna Dist - Dibruganh (Assaw)

Sub: "Consent to Operate" upto 31st March, 2018.

Dear Sir,

With reference to your application in the name and style as mentioned above, the Board is pleased to grant the initial / renewal "Consent to Operate" under the Water Act / Air Act, upto 31<sup>st</sup> March, 2018 under the terms and conditions as per the Board's earlier letter No. NB/31B/T-605/15-16/94, dld-30/03/16

You are also requested to apply for "Consent to Operate" for the year 2018-2019 within November, 2017.

Yours faithfully

Member Secretary(i/c)

Dated Guwahati the 1919 Memo No. WBI D18/7- GOS/15-16/126-A Copy to:

- The Under Secretary, Environment & Forests Department, Govt. of Assam, Dispur, Guwahati-6 for favour of information.
- The Deputy Commissioner, Dibrugarh district for favour of information.
- 3. The General Manager, DI&CC, Dibrugarh for information.
- 4. The Regional Executive Engineer, Regional Office, Dibrugarh, PCBA for information & necessary action.

Member Secretary(i/c)

## Consent to Operate DG set at Precast concrete block manufacturing unit – Dibrugarh



## Pollution Control Board:: Assam Bamunimaidam; Guwahati-21

(An ISO 9001:2008 & BS OHSAS 18001:2007 Standard Certified Organ Phone: 0361-2652774 & 2550258; Fax: 0361-2550259 Website: www.pcbassam.org

No. WB/DIB/7-642/16-17/32

Dated Guwahati, the

Ws. K. K. Spun Pipe Put Ltd (D.G. Set)

Bongaligaen

Mancotta-Whanikare P.O. - Borbarua, Lepithata Dell. - Dibrugash (Assam)

Sub: "Consent to Operate" upto 31st March, 2017.

Dear Sir.

With reference to your application in the name and style as mentioned above, the Board is pleased to grant the initial/renewal "Consent to Operate" under the Water Act / Air Act, upto 31st March, 2017 under the terms and conditions as per Appanolise A

You are also requested to apply for "Consent to Operate" for the year 2017-2018 within November, 2016

Member Secretary(i/c)

Memo No. WB/ D2B /7-642/16-17/32-A, Dated Guwahati the ... 18/17/2016

1. The Deputy Secretary, Environment & Forests Department, Govt. of Assam, Dispur. Guwahati-6 for favour of information.

2. The Deputy Commissioner, Dibrugarh for favour of information. 3. The General Manager, DI&CC, Dibrugarh for information.

4. The Regional Executive Engineer, Regional Office, Dibrugarh, PCBA for information & necessary action.

Member Secretary(i/c)

# 3 22 0 DIESEL GENERATOR SETS STACK HEIGHT

The minimum a Thom this k Ministral street aith each generator set shall be wo tallowing formula

H=h+0.2 vKVA, where H=1 total height of stack in meter h = Height of the building in meters where generator set is installed

KVA = Total generator capacity

Adequate fire fighting measures have to be provided by the occupier of the premises Based on the above formula the minimum stack height to be provided with different range of generator sets may be categories as follows

Range of Generator sets	Minimum Stack Height
50 KVA -	Lit of the house rieight
50 - 100 KVA	Ht. of the building + 1.5 metre
	Ht. of the building + 2.0 metre.
100 -150 KVA	Ht. of the building + 2.5 metre.
150 - 200 KVA	the of the bollowing + 2.5 metre
200 - 250 KVA	Ht. of the building + 3.0 metre
	Ht. of the building + 3.5 metre
250 - 300 KVA	Ht. of the building + 3.5 metre

Similarly for higher KVA rating a stack height can be worked out using the above formula.

Source: Evolved by CPCB [Emission Regulations Part-IV: COINDS/26 1986-87]

4. A .32.0 Part - C SI. No. 1

Stack Gas : PM - 150 µg/Nm<sup>3</sup>

B. Ambient Air Standards:

Residential Area	Industrial Area	Sensitive Area
SO <sub>2</sub> 80° µg/m³	120° pg/m³	30° µg/m³
NO <sub>2</sub> : 80° µg/m <sup>3</sup>	120° : µg/m³	30° µg/m³
CO : 2.0** µg/m²	5.0** µg/m³	1.0** un/m3
*24 hourly;		** 8 hourly

# SCHEMATIC DIAGRAM OF D.G. SET IN AN ACOUSTIC ENCLOSURE No. Process/71/1998-99.

This, highly perforated G.I. or Aluminium sheet 10 cm thick Mineral wool 16 gauge M.S. Plate (1-6 mm)

Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

Air required for the ventilation and breathing of the engine will have to be provided by means of intake louvers and exhaust louvers (called parallel baffle mufflers) projecting out of the enclosure.

the

Member Secretary Pollution Control Board, Assam

#### APPENDIX A

1.66.0 STANDARDS AND GUIDELINES FOR CONTROL OF NOISE POLLUTION FROM STATIONARY DIESEL GENERATOR (DG) SETS.

## (A) Notes standards for DG sets (15-500KVA)

The total sound power level LW of DG set should loss than 94 = 10 log 10KVA. dB (A), at the manufacturing stage, whether, KVA is the nominal power rating

This level should fall by 5dB (A) every five years, fill 2007, i.e. in 2002 and then in 2007

# (B) Mandatory Acoustic enclosure/Acoustic treatment of room for stationary DG sets (5KVA and above):

Noise from the DG set should be controlled by providing an acoustic enclosure on by treating the room acoustically.

The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion Loss or for meeting the ambient noise standards, which ever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion Loss may be done at different points at 0.5 from the acoustic enclosure/room, and then averaged. (See the Schematic Diagram).

The DG set should also be provided with proper exhaust muffler with Insertion Loss of minimum 25 dB (A).

## Guidelines for the manufacturers Users of DG sets 5KVA and above

- The manufacture should offer to the user a standard acoustic enclosure of 25dB(A). Insertion Loss and also a suitable exhaust muffler with insertion Loss of 25dB(A).
- The user should make efforts to bring down the noise levels due to the DG set, outside his premises, within the ambient noise requirements by proper sitting and control measures.
- The manufacturer should furnish noise power levels of the unsalaried DG sets as per standards prescribed under (A).
- The total sound power level of a DG set, at the user's and, shall be within 2dB(A) of the total sound power level of the DG set, at the manufacturing stage, as prescribed under (A).
- u Installation of DG set must be strictly in compliance with the recommendation of the DG set manufacture.
- A proper routines and preventive maintenance procedure for the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

Source: EPA, 1986 [GSR 7, dated Dec 22, 1998]

## 2.44.0 NOISE (AMBIENT STANDARDS)

Area Code	Category of Area	Limit in o	iB(A) Leq.
		Day time	Night time
Α.	Industrial area	75	70
В.	Commercial area	65	55
C.	Residential area	55	
D.	Silence Zone	50	45

Note - 1: Day time is reckoned in between 5.00 A.M. and 9.00P.M.

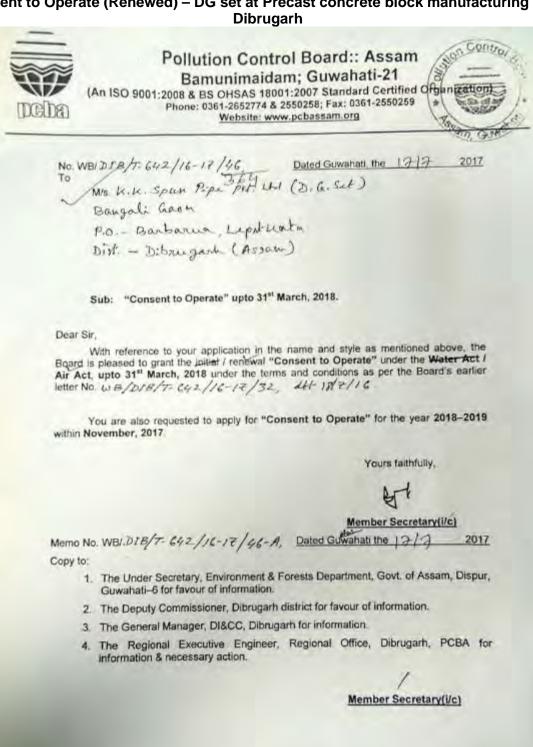
Note - 2 Night time is reckoned in between 9.00P.M. and 6.00 A.M.

Note – 3: Silence zone is defined as areas up to 100 meters around such premises as hospitals, educational institutions and courts. The silence zones are to be declared by the competent Authority.

Note – 4 Mixed categories of areas should be declared as one of the four above mentioned categories by the competent Authority and the corresponding standard shall apply

Source : EPA, Notification [ GSR 1063 (E), dated Dec., 26, 1998 ]

# Consent to Operate (Renewed) – DG set at Precast concrete block manufacturing unit –



## NOC for disposal of drainage silt

OFFICE OF THE DIBRUGARH MUNICIPAL BOARD

ESTD, 1873

NO. DM/DR & SWM/ADB/208/2011-12/3111

Dated. 25-02-2016

To,

Sri G.R. Das, AFS, DCF [Retd]
Liaision Officer
P.I.U., AUIIP, Dibrugarh
Aditya Complex, 2<sup>nd</sup> Floor, Khalihamari
Dibrugarh

Sub: Permission for allowing dumping of desiltation/earthwork materials at Maijan Dumping Site.

Ref: Your Letter No. AUIIP/PIU/DBR/DTP DRAIN/6/56-58 Daled 17-02-2016

Sir.

In inviting a reference to the above, I would like to inform you that permission is granted by the undersigned for allowing dumping of desiltation/earthwork materials of DTP Drain from Chainage 0.00km to 6.3 km at Maijan Dumping Site under the following terms and conditions.

- 1] The container of the vehicles viz. Dumper, Tipper etc., deployed for carrying desiltation/earthwork materials should be covered at the time of disposal.
- 2] Precautionary measures are to be adopted to avoid falling and scattering of Materials on the road while disposing of materials in the dumping site which may cause poliution and dirty.
- 3] The vehicles should be carefully entered in to the dumping site through the approach road without causing damage of the DTP Dyke under construction.
- 4] Time to time restoration/maintenance of the approach road of the dumping site to be used shall have to be done from your end or as and when felt necessary for development/restoration work in consultation with the undersigned.

pro-	4 - 3					200
CODE	t 🔿					2
Con	اندا	 	 2.4	-	 	 150

5] The materials should be dressed and leveled and to be covered by silt after dumping at certain intervals after discussion to be held with the undersigned.

Yours faithfully

39

Chairperson Dibrugarh Municipal Board

Dibrugarh

Memo No. DM/DR & SWM/ADB/208/2011-12/311]-#2 Dated. 25-02-2016 Copy to:

- 1] The Deputy Commissioner, Dibruharh for kind appraisal.
  - 2] The Vice Chairman, Dibrugarh Municipal Board for kind appraisal.
  - The Executive Officer, Dibrugarh Municipal Board for kind appraisal.
  - 4] The H.A.; Dibrugarh Municipal Board.
  - 5] The A.E.E. Dibrugarh Municipal Board.
  - 6] The A.E. Dibrugarh Municipal Board.
  - 7] The J.E., Dibrugarh Municipal Board. He is directed to monitor and ensure proper follow up of the above noted terms and conditions as bounded by the undersigned and infimate accordingly.
  - 8] The S.I. Dibrugarh Municipal Board. He is also directed to perform the duties along with the J.E. in regards to the directions as assigned to him.

9] Concerning File.

PIU, AUIIP, Dibrugarh Received 27

Date: 05-03-16

Chairperson Dibrugarh Municipal Board Dibrugarh

# NOC from private land owner for disposal of silt

INN I THECATE

the it to certify !!	Md	Rose	-Import	Real Cros	daughterol
do hereby certify it				entioned Property	
Further I/We have	.07	in Toronto		and the compan	
hyacinths etc. thur		Brown		and Allied Works	
and that no cost / 1		an Oters		eir associates for i	
purpose.					
It is hereby submittee			tion you (the	above property	being used for
the mentioned (mir)					
Md. (Signature & Nam	loss-				
Date 09/06/201	6 -				
Place: Dibriga	nt.				

do	hereby certify that I/we am/are the rightful owners of aforementioned Property.
	, and a substitution of the substitution of th
P.	
	rther I/We have permitted M/s Corsan Corviam Construccion and the company's asso
to	use the above mentioned plot for dumping disposable muck, excavated material,
hy	acinths etc. during Construction of DTP Drain, Box Culverts, and Allied Works in Dib
an	d that no rent / levy will be charged from the company and their associates for the abov
pu	rpose.
	161
It	s hereby solemnly affirmed that I/we have no objection in the above property being us
	e mentioned purposes.
	mul
(S	gnature & Name of Land Owner
D.	12 Nimpora
Da	te: 12 Nimpora Phukan
Pla	ce: Phikah
	Jyhragaz
	1 7 12 2001
	bibugest
(	Near Dr. Drug
	Dear Ch. 364 00)

# NO OBJECTION CERTIFICATE

This is to certify that I II. Freedy Bares, son/daughterof
Mr. Norragen gover govern
Typherapy Pin 78600/
do hereby certify that 1/www.mu/ares in rightful owners of aforementioned Property.
- 4
Further J/We have percented 11/4 Green Construction and the company's associates
to use the above measured that a disappropriate muck, excavated material, water
hyacinths etc. during (combine) many 1879 Drain, Hos Culverts, and Allied Works in Dibrugarh
and that no rent / leey will fur immend from the emispany and their associates for the above said
purpose,
It is hereby solemnly affirmed thin Tree have nepterction in the above property being used to
the mentioned purposes.
(Signature & Name of Law Mary Prodif Barai
Place: Distrigant .  Systemogarl
Place: Distriganh.
systimas are
(01-264 to ed 779)

## NO OBJECTION CERTIFICATE

This is to certify that I Mr. Note in Borgéhoin son/Daughter of Mr. Late Heranda Barghoiresiding at Hathat Konwar Crosson Pin 786008

Do hereby certify that I /we am/are the rightful owners of aforementioned property.

Further i/We have permitted M/S Corasn Corviam Construccion and the company's associates To use the above mentioned plot for dumping disposable muck, excavated material, water hyacinths etc. During construction of DTP Drain, Box culverts and Allied Works in Dibrugarh and that no rent/levy will be charged from the company and their associates for the above said purpose.

It is hereby solemnly affirmed that I/we have no objection in the above property being used for the mentioned purposes, and during this period I/We will not cultivate in this land.

Signature & Name of the land Owner

Date: 1st Jene 2016

Place: Dibargorb

## **NOC from Airport Authority- Landfill site Dibrugarh**



भारतीय विमानपत्तन प्राधिकरण

Airports Authority of India, North-East Region, LGH Airport, Gowahati-781015, Assam

SPEEKS MIST

Ref: AAI/NER/ATM-50/NOC /

3601-04

Date: 28.06.2013

NOC FOR HEIGHT CLEAPANCE ONLY

Project Director, Project Management Unit (PMU), Assam Urban Infrastructure Investment Programme (AUIIP) 3" floor, Tripti Tower, Ganeshguri Chariali, Guwahati-781005.

> NOC (height clearance only) for construction of Sanitary Land Fill Project. Sahat Ghoramara, Dibrugarh

Reference in your apple name dured 10.06, 2013 mi the above subject.

1. There is no apprecion to the election of arructures as per the denails given below, subject to the following

No.	Las A Long E7	Elevation on reduced level AMSL (in mar.)	Height of the Structure AGL	Top elevation of Structure AMSL	Site details
1 2 4	27 34 18 498 N 094 35 20 006 E 27 34 38 108 N 094 35 18 66 4 1 27 34 34 074 N 094 35 17 280 T 37 34 33 357 N 094 35 18 765 E	100 00 100 00 100 00	00 mt/) 10 00 10 00 10 00 28.70	110.00 110.00 110.00 128.76	For many Mr. 17, 12, 14, 14, 15, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16

2. This in Objection Certificate is being issued on the express understanding that the site elevation. relative location of the Proposed building/structure and its distance and bearing from the ARP/ Harway ends/Ranway centre one licharbever is applicable; as tendered by the applicant are correct. W. however, at any stage it is established that the actual data is different from the tendered data and which could adversely affect aircraft operations, the atouctore or parts thereof in respect of which this NOC is being issued will have to be demolished at the applicant's own cost as may be directed by the Airports Authority of India

3. No light or a combination of lights which by reason of its intensity, configuration or colour may nause confusion with the acronautical groupid lights of the airport shall be installed at the site at any

time during or after the construction of the building

4. This certificate is valid for a period of 5 (Pive) year from the date of issue. If the building/ structure/ channey is not constructed and completed within the above mentioned period of 5(Free) year, the applicant will be required to obtain a fresh No Objection Certificate from the General Manager (ATM). NER. The date of completion of building/ structure/ channey should be intimated to the General Manager (ATM), North East Region.

5. The issue of the 'NOC' is further subject to the provisions of Section 9 A of the Indian Aircraft Act, 1934. and those of any notifications lasted there under from time to time and under which the applicant may be called upon by the Airports Authority of India to demolish in whole ar in part the atricture now being authorized sule this NOC

6 No Radio; TV Aptenno, lighting agrestors, staircase, overficed water bank and attachment or Usburk of any kind shall project above the height volucated at Para I above

7. Day is Nights marking with both muin and standby power supply should be provided as per ICAD

IN AIRPORTS AUTHORITY OF INDIA

Less CX (Malay Datta) General Manager (ATM) Chairman, RNOC Committee

11 RED, NER AAI, LOIN ACTION TOWNSHIP

GMINOC, XA), Selder, ung Aryon: 37.0 (University New Vollage) 3.

Access Dervotor Medicarbar, Account Followers.

## **Environmental Clearance letter from SEIAA Assam**

GOVT, OF ASSAM OFFICE OF THE STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, BAMUNIMAIDAM, GUWAHATI-21

No. SEIAA.27/2015/EC/56 / 2.65

Dated: Guwahatt the 21th September 2015

The Project Director.

Assam Urban Infrastructure Investment Program (AUIIP)

Gawahati Development Department

Floor, Tripti Tower, Gancaliguri, Guwahati-05

Sub: - Proposal for establishment of 100 TPD Municipal Solid Waste Processing Facility (MSWPF) for Dibrugarh city at Village- Ghoramara, Dibrugarh West Revenue Circle, Dibrugarh, Assam: Regarding-Environmental Clearance.

Sit.

This has a reference to your application No. ADB/AUIIP/SW/9/2014/34 dated 03/07/2013 and subsequent communications for Environmental Clearance for the establishment of 100 TPD MSWPF for Dibrugarh city at Vill- Glorumarn, Dibrugarh West Revenue Circle, Dibrugueh, Assam.

The proposal has been examined and processed in accordance with EIA notification, 2006 and its

amendment thereof.

The inter-alia of the project is to development and establishment of 100 TPD Processing Plant and 60 MT Samiary Landfill site and allied works. The proposed project site bus an area of 28.81 ha. Project nite will comprise of compost Plant, an engineered Sanitary landfill, leachase treatment plant, raw waste shorting yard and ancillary facilities. The proposed land area use for landfill and other components has been 7.86 ha in 1st phase and 2.7 ha of land fill area have been proposed for 2st phase. Adequate area and volume available at SWM site at present to receive & fill up Solid waste materials for a period of 30 years. with expected height of about 10 mts; for 1th phase activity and 16 mts, for phase-2 activity. As the Sessa stream is passing nearby the proposed landfill site, proper retaining walls are being communical for protecting waste arises from compost plant, other infrastructure facilities & landfill site. Adoquate land within the SWM site shall be made available for leachate collection & treatment facilities. The occupier of the MSWPF. Dibrugarh agreed upon to follow and implementation of rules prescribed in the MSW (Management & Handling) Rules 2000 and guidelines prescribed in the Technical Guidance of Manual on Common Municipal Solid Waste Management facilities published by MoEF, Govt. of India. Presently per capita generation of MSW in Dibrugath metropolitan Arm (DMPA) has been considered as 0.350 kg/ day (2011 & 2013) and projected generation will be 2016-0.362 kg/day, 2026-0.412 kg/day, 2036-0.462 kg/ thay 2046-0.512 kg/ day. House to house enflection of MSW has been proposed alongwith segregation of wastes at source. Water requirement will be 7 KLD during construction and 2 KLD will be during operation surface water from Sessa attents will be used. The proposed MSW compositing unit has been comprised with four stages in acientific treatment & processing of bio-solid waste through controlled accelerated his conversion technology. The proposed area for green belt development has been 1.85 ha. Post closure plan has also been proposed following MSW (Management & handling) Rules 2000, Power requirement in 1.5 MW for the proposed MSW processing facility. DG sets will be provided for backup electricity supply during power failure and necessary control measure will be followed as per rule. Landfill gas collection system will be provided for collection of gases & will then be collected in a tank and will be flared. Torul cost of the project is 48,49 Crores.

The proposal has been examined & processed in accordance with EIA notification 2006 and its amendments thereof. The members of the SEIAA & SEAC, Assum has been examined & scrutinized the documents of the proposal and found that the project fulls under schedule 7 (1) and considered as H1 ategory of EIA notification 2006. Accordingly TOR has been recommended for preparation of EIA &

Public bearing and public consultation was beld on 17/12/2014 & 22/07/2015 respectively

Subsequently final EIA/ EMP Report have been submitted alongwith minutes of Public Hearing/ public comultation to SEIAA, Assum. The project proponent has appraised the project proposal in the meeting of SEIAA & SEAC, Assam held on 29/08/2015. The Members of the Committees recommended the proposal for issuance of Environmental Clearance recorporating some of the pertinent points related to

Based on the recommendation of the Committees, the SEIAA, Assum seconds Environmental Clearance to the project us mentioned above under the provision of EIA notification 2006 and its

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subsequent amendments issued under Environment Protection Act 1986 subject to compliance of following specific and general conditions.

#### A. Specific Candition:

L Construction and design stage:

House to house collection/ community bin collection/ collection of waste from slums and squatters/ commercial/ official complexes shall be organized by DMB,

Bio-medical waste, horticulture waste, construction debris, hazardous waste, dairy waste shall be 2 managed separately as per the provision of existing rules & regulations.

- As proposed, adequate link routes are to be developed for proper cultection of Municipal Solid Waste (MSW) from various source locations and for smooth transportation of the same to the identified treatment/ disposal facilities.
- Color coded bins shall be provided at every house hold and source segregation shall be ensured.

The waste receptacles and the garbage lifting machineries should conform to each other. 5.

- Manpower should be planned in such a manner that collection and transport of waste is achieved 6 up to desired level.
- Waste from slaughter houses, meat & fish markets, fruits & vegetable markets which are 7. biodegradable in nature shall be managed to make use of such waste scientifically,

Waste (garbage, dry leaves) shall not be burnt. 8

Stray animals shall not be allowed to move around waste storage facilities and shall be managed in 9 accordance with the State laws,

The municipal authority shall notify waste collection schedule and likely method to be adopted for IO. public benefit in the town.

The MSW shall be sent to the treatment facility after collection, Secondary collection point (SCPa) 11. shall be constructed. Adequate storage facilities and hygienic conditions are to be provided in

The Municipal authority shall undertake phased program to ensure community participation in waste segregation.

#### II. Storage of MSW:

Municipal authority shall establish and maintain storage facilities in such a manner as they do not 1 create unhygienic and in-sanitary condition around it.

Storage facilities to be set up by municipal authority or any other agency shall be so designed that wastes stored are not exposed to open atmosphere and shall be aesthetically acceptable and user-

Storage facilities or bins shall have easy to operate for handling, transfer & transportation of waste. Bins for storage of biodegradable waste shall be green, storage of recyclable shall be white and for storage of other waste shall be black.

Manual handling of waste shall be prohibited. 4.

#### III. Wuste Treatment Facility:

Segregated organic waste shall be sent to the compost plant in covered manner as proposed.

Window composting shall be conducted for stabilizing the organic portion of the waste.

The composting plants at treatment facilities shall have waste receiving platform. Window 3 platform, Monsoon shed, Preparatory section, curing area, refinement section, quality check Area, godown. Each section should be constructed with the general requirement proposed in the report.

Receiving platform of concrete slab covered with abed will be provided for further segregation and maintaining waste before sending to window area. Gutters to collect leachate will be provided on the platform and leachate will be drained into and stored in the leachate pit (s). Leachate will be finally brought for treatment and discharge.

Fence and Buffer zone will be provided surrounding the transfer section/ compost plant. Water taps will be provided for daily cleaning and treatment shall be done for the cleaning waste water properly to comply the standard as prescribed by CPCB/ MnEF

Adequate roof shed and concrete platform/ roof should be provided to all sections. 6

Access to loaders should be ensured.

Ambient sir quality monitoring will be carried out during operation period and report shall be 8. made available to public.

#### IV. Pre-processing area:

The size and design of the pre-processing area should be adequate for proper storage of incoming

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- Pre-processing area should consist of permanent roof shed over platform, partition wall for 2. protection against wind and noise, concrete platform, Weighbridge facility, Waste loading, Waste segregation (if required) and Waste shredding facilities etc. Access to loaders should be ensured.
  - Recyclables will be segregated into 5 categories (papers, plastics, rubbers, metals and glasses) and 3. placed in the respective containers and routed through appropriate vendors. Non-recyclables will be sent to landfill site.
  - Battery wastes, E- wastes & Hazardous wastes shall be handled & disposed as per respective rules 4. framed under E.P. Act 1986.

#### V. Processing area:

- The processing area comprises of mass composting and curing activity.
- Adequate residence time should be provided for compostable waste in mass window. The platform 2 should be constructed with adequate strength, structural stability and drainage provisions.
- Proper space is required for easy movement of loader or operation of vehicle. 3
- The mass composting pad surface and curing area is paved to avoid erosion from runoff. Grading 4. the surface of the pad to meet the optimal slope will also help to prevent erosion by allowing smooth drainage.
- This facility will be equipped with hopper, feeding conveyor, dual trammel, reject conveyor and 5. transfer conveyor. The under sizes digested material including manure will be conveyed by transfer conveyor to curing area and rejects shall be conveyed by trolley to transfer station.
- Digested material will be stacked in the curing area to remove moisture from digested material for 6. effective screening and to protect the digested material from rain. Moisture shall be measured,
- Adequate drainage at composting facilities should be provided in order to prevent water logging. 7.

#### VI. Post processing area:

- The post processing area at composting facilities shall be used for screening, size reduction and 1 blending operations for compost, conducting tests to ensure quality of compost, preparing compost for market and also for storing the compost.
- Proper vibro-screen, density separator shall be installed to segregates metals, probbles, sand and 2 all undigested materials.
- Adequate storage capacities should be incorporated into site designs for composting facilities. 3. Backup storage and disposal capacity should also be ready to accommodate demand of seasonal
- Buffer zone should be provided to minimize the odour and transport of bio aerosols along 4 downwind of the facility.
- Sprinklers/ water spraying facility should be installed in order to reduce the dust generation at site during the construction work.
- On site road leading to the tipping and storage areas should be paved or graveled roads to 6. accommodate movement of large vehicles even during adverse weather conditions. Roads shall be designed to provide adequate space for turning. The roads at dumping areas should be designed to accommodate delivery by all types of vehicles.
- lnert materials and rejects of compost shall be transported to landfill site. 7.
- Ventilation arrangement should be ensured in case of close siding. 8

#### VII. Sanitary Landfill Facility:

- Semi- Aerobic landfill system shall be constructed as proposed,
- The Sanitary landfill shall include following features: Section Embankment, Disposal ground, 2 Leachate Collection & Removal System, Municipal Solid Waste Inspection area, Storm water drainage system, Green belt/ buffer area/ lawns, Boundary wall, Weigh Bridge, Leuchate Treatment Plant, Gas collection system if required, Water supply System, Quality control laboratory, Boundary Wall and fencing, Roads and Street lighting, Office Block, Shed for machinery storage and parking, vehicle washing platform and other basic amenities.
- Landfill layout should be designed to cater landfill as per MSW (M& H) Rules 2000 and 3 guidelines prescribed by CPCB/ MoEF for 30 years as mentioned in EIA report.
- The Landfill should be designed in line with MSW Rules, 2000 having minimum environmental
- The landfill should be developed in two phases. 5.
- The landfill should be of the capacity to handle 60 MT waste in 1st phased as proposed. 6.
- Adequate bottom liner system and top liner system shall be provided. Appropriate thickness of the HDPE liner for the bottom liner as well as top liner system shall be provided to prevent and damaging impact in surrounding area and to prevent water infiltration.



The coefficient of permeability as proposed should be used as guiding factor. S.

Leachate produced from infiltration of water percolated through the dumped waste layers will be 9 collected in a pond (aeration pond) through properly sized perforated pipes ( main leachate pipes and branch leachate pipes) embedded in graded gravels/ boulders as filter material.

The drainage should be designed with special care to avoid any overflow. 10.

Leachate collection, treatment & removal system should be developed for effective collection of 14 leachate and reducing the risk of contamination of ground water.

Daily cell cover is to be provided as per the norms.

12, As per the Municipal Solid Waste (Management & Handling) Rules 2000, DMB should declare a 14. no-development buffer zone around the landfill site and the same should be incorporated in the town planning department land use plans.

#### VIII. Facilities at the site:

3.

A buffer zone of no- development shall be maintained around landfill site and shall be T. incorporated in the Town Planning Department's land-use plans.

Landfill site shall be fenced or hedged and provided with proper gate to monitor incoming 2. vehicles or other modes of transportation.

The landfill site shall be well protected to prevent entry of unauthorized persons and stray animals.

Approach and other internal roads for free movement of vehicles and other machinery shall exist 4. at the landfill site.

The landfill site shall have wastes inspection facility to monitor wastes brought in for landfill, 5. office facility for record keeping and shelter for keeping equipment and machinery including pollution monitoring equipments.

Provisions like weigh bridge to measure quantity of waste brought at landfill site, fire protection 6 equipments and other facilities as may be required shall be provided.

Utilities such as drinking water (preferably bathing facilities for workers) and lighting 7. arrangements for easy landfill operations when carried out in night hours shall be provided.

Safety provisions including health inspections of workers at landfill site shall be periodically 8. made.

#### IX. Leachate Collection, Treatment & Removal System:

Suitable bottom liner system shall be provided with adequate slope towards the leachate collection

As proposed, HDPE pipes with adequate strength, diameter should be laid at suitable slope and 2 spacing for leachate collection.

Perforated drainage pipes shall be provided for rapid transport of fluids. Adequate slope and spacing should be provided.

These pipes should be of good quality HDPE with appropriate pressure- specification and perforations.

RCC collection sump shall be constructed. 5.

Leachate shall be treated in the leachate treatment plant and disposed or re-used in landscaping 6.

after compliance of the standards prescribed by CPCB/ MoEF.

The component that is most vulnerable to compressive strength failure is the drainage layer piping. 7. Leachate collection system piping can fail by excessive deflection which may lead to bucking or collapse. All components of the leachate collection system must have sufficient strength to support the weight of the overlying waste, cover system and post closure loadings as well as stresses from operating equipment.

The depth of the drainage layer around the pipe should be deeper than the diameter of the pipe, 8. The pipe should be placed in trenches to provide the extra depth. In addition, the trench serves as a

sump for leachate collection.

As pipe can be susceptible to particulate and biological clogging similar to drainage layer material 9. regular maintenance should be ensured.

## X. Storm water collection and drainage system:

Storm water drainage system should be designed to minimize the leachate generation and to prevent contamination of surface water through runoff from dumpsite. The storm water should not be allowed to enter the active cell of the landfill. Stagnation must be avoided, Storm water from the site will be collected in a detention pond prior disposal.

The project site should be suitable leveled and embankments should be constructed in such a 2, manner that under no circumstances the storm water from outside area can enter the project site or

the project site runoff inundates surrounding road or adjoining area located nearby.

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#### XI. Transport and other conditions:

- Adequate Buffer zone should be provided to minimize the transport of odour and bio aerosols
  downwind of the facility.
- Adequate transport management plan should be in place for uninterrupted traffic flow. Roads shall
  be designed to provide adequate turning and dumping areas to accommodate delivery by all types
  of vehicles.
- On site roads should be paved or graveled roads leading to the tipping area and storage areas to accommodate movement of large vehicles during adverse weather conditions.
- Adequate lighting should be provided in streets and working areas for ensuring operation and security.

#### B. Specific Conditions- For Operation Stage:

#### L Collection and Transport system:

The collection and transportation is the responsibility of the ULB as per the DPR/ EIA Report. The garbage lifting crews should be provided with shovels, long handled brooms for collection and transfer of waste. They should also be provided with protective wears. The equipments as prescribed in EIA Report should be provided.

- All the vehicles that shall be used for transportation of MSW from Processing facility to Landfill site must have suitable tracking system.
- 2. All vehicles will be fitted with fire extinguishers and first aid kit.
- 3. Medical checkups of drivers and other field staff would be carried out from time to time.
- During transportation the container shall remain closed from all side and shall be opened at the time of disposal of the waste only. Each container should be inspected at least once in a week for any leakage spillage problem.
- 5. The transporter shall be made aware about the type of wastes and quantities.

#### II. Segregation and reuse of Recycling Materials:

- Recyclables will be segregated at compost plant as well as at transfer station.
- Wastes other than biodegradable and recyclables after segregation will go to landfill as per specifications of Schedule III of MSW (M&H) Rules 2000.
- As proposed manual segregation of recyclable material (paper, glass, plastics, rubber and metal)
  will take place at the transfer station platform. Recyclable material will be segregated by adequate
  number of workers equipped with all safety tools and equipment.

#### III. Operation at composting plants:

- 1. Daily log of MSW handled in the facilities should be recorded and kept in place.
- Weighbridge should be used for quantification of waste. Weighbridges should be calibrated by independent agency on regular basis.
- The number of vehicles, number of trips by each vehicle, quantity of waste transported should be recorded at all facilities.
- The organic solid waste shall be stabilized through microbial action.
- As proposed window shall be turned twice a week for oxygenation. Active composting shall be followed by curing at bunker for adequate time period as and when required.
- In the mass window, adequate moisture content is to be maintained throughout the fermented cycle.
- Waste should be stacked in adequately spaced rows.
- Ground compaction and leveling shall be provided in the area occupied by the composting bunkers, curing pad and roads.
- Water shall be supplied to the piles to maintain the desired moisture content. Any leachate or runoff from the piles will be collected and treated or added back to a batch of incoming MSW to increase its moisture content.
- Quality control shall be ensured for physical, chemical and biological parameters. On site laboratory facility should be provided with skilled manpower.
- 11. Finished product shall be packed in HDPE bags or poly bags:
- In order to ensure safe application of compost the specification for compost quality shall be met as prescribed MSW (M&H) Rules 2000.
- Necessary precautions shall be taken to minimize missance of odour, flies, rodents, bird menace and fire hazard.
- Ambient air quality monitoring shall be regularly carried out particularly for checking odour massance at down-wind direction on the boundary of processing plant.

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- Routine operation and maintenance scheme should be complemented by Emergency Response Protocol (ERP) to carry out emergency repairs and damage controls.
- 16 The compost and leachate should comply with quality standards proposed in MSW rules.
- 17. Buffer zone should be provided to minimize the odour and transport of bio aerosols along downwind of the facility.

#### IV. Operation at Landfill:

- The landfill facility operator must ensure that only the residual inert material and rejects of compost plant, sewer silt is disposed.
- Disposal of construction debris at landfill is not preferably being allowed.
- The waste transported at landfill facility shall be reported with date, time, waste quality etc.
- The landfill shall be compacted during active operations on daily basis and covered as per requirement.
- Suitable design slope shall be maintained in the sanitary landfill.
- The actual stability shall be tested at regular interval.
- An intermediate liner should be provided before onset of monsoon.
- 8. The final cover shall be laid as per construction requirements and MSW regulations to enhance surface drainage, minimize infiltration, vegetation and control the release of the landfill gases. To ensure the rapid removal of rainfall from the completed landfill and to avoid the formation of piddles, the final cover should have a requisite slope.
- Sufficient distance is to maintain to avoid circular collapses. The Geotechnical Investigation on reports should be consulted for ensuring adequate safety factor.
- In constructing the road accessing from the Dibrugarh & adjoining area to the landfill site the current flow of rain water in the rainy season could be prevented. So that the drain pipe needs to be big enough for the flow of rain water from the upper reaches of the access road to lower reaches of the access road.
- 11. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) Leq (daytime) and 70 dB(A) Leq (nighttime) and its subsequent amendments.
- Green belt shall be developed at least 33% of the land area for proposed project to be covered by plantation.
- 13. All internal roads should be concreted/ pitched. Proper lighting and proper pathway inside the premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper house keeping shall be maintained within the premises. Solar lighting should be used as far as practicable.
- 14. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment (PPE) as per proposal and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- The implementation and monitoring of Environmental Management Plan should be carried out as proposed.
- Corporate Social Responsibility programs should be carried out and shall be adopted as mentioned in EIA report.

#### V. Monitoring and landfill facilities:

- Monitoring of the ambient air quality, surface water quality shall be conducted as specified in MSW Rules.
- Monitoring wells should be set up to monitor leakage leachate into ground water. At least four
  monitoring wells should be set up at each side to monitor groundwater flow in all possible
  directions. The monitoring wells can be located in consultation with District Administration/
  PHED.
- The surface water, ground water, air quality, landfill gas, leachate, incoming waste etc. should be monitored us per the proposed Environmental Monitoring Plan.
- The monitoring network is to be expanded/ modified as and when situation required.

## VI. Plantation at Landfill Site:

A vegetative cover shall be provided over the completed site in accordance with the following specifications:

STATE ASSESSED.

Selection of locally adopted non-edible perennial plants that are resistant to drought and extreme temperatures shall be allowed to grow.

The plants grown be such that their roots do not penetrate more than 30 cms. This condition shall 2. apply till the landfill is stabilized.

Selected plants shall have ability to thrive on low-nutrient soil with minimum nutrient addition. 3.

Plantation to be made in sufficient density to minimize soil erosion. 4.

## C. Closure of the Site & Post Closure Care:

The post- closure care of landfill site should be conducted for at least fifteen years and long term monitoring or care plan shall consist of the following

Maintaining the integrity and effectiveness of final cover making repairs and preventing run-on 1. and run-off from eroding or otherwise damaging the final cover.

Monitoring leachate collection system to ensure no overflow of leachate. 2.

Monitoring the influent and effluent quality at the sludge and leachate treatment plant. 3.

Maintaining and operating the landfill gas collection system to meet the standards. 4,

Adequate venting system should be provided for venting gas. The gas collected in the gas vent 5. layer shall be collected and vented through vent pipes.

## VII. Additional Conditions:

The L.P. school located near the proposed landfill site shall be shifted to a safe distance by the authority concern before construction of the proposed site,

The existing landscape shall be maintained to the extent of maximum possible way. 2.

Dumping of MSW shall not be allowed in the proposed landfill area before completion and 3.

commissioning of the project.

The commitment made in the Meeting held on 22/07/2015 in the Conference Hall of Deputy 4. Commissioner's office, Dibrugarh before the public of Lekai area in connection with establishment of Solid Waste Management Project at Lekai, Ghoramara, Dibrugarh shall be complied along with the compliance of the EIA report.

#### D. General Conditions:

The project proponent shall comply with all the environmental protection measures and safeguards recommended. MSW Rules 2000 should be followed strictly. Further, the unit must undertake socio- economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.

All the conditions, liabilities and legal provisions contained in the Environmental Clearances shall 2 be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other

Provision should be made for the supply of kerosene or cooking gas to the labourers during 3. construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.

The vehicles and MSW handling/ processing equipments shall be arranged as per EIA report and 4.

as per requirement from time to time.

The project proponent should make financial provision in the total budget of the project for 5. implementation of the environmental safeguards. The project authorities will provide requisite funds recurring and non-recurring to implement the conditions stipulated by the SEIAA alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.

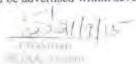
No further expansion or modifications in the plant should be carried out without prior approval of 6.

the State Environmental Impact Assessment Authority, Assam.

In case of any violation of the conditions laid down in this Environmental Clearance, Section 16 of 7the Environment (Protection) Act, 1986 will be applicable.

In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA. The State Environmental Impact Assessment Authority reserves the right to add additional

- condition (s). Safeguard measures subsequently if found necessary and to take action including revoking of the 10. environment clearance under the provisions of the Environmental Protection Act 1986 to ensure effective implementation of the suggested measures in a time-bound and satisfactory manner.
- The Project Proponent should inform the public that the project has been accorded environmental 11. clearance by the SEIAA. This should be advertised within seven days from the date of issue of the



clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.

12. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, the date of financial closure and final approval of the project by the concerned authorities and the date

of commencing the land development work/ project implementation.

13. Prior Consent to Establish (NOC) for the proposed project must be obtained from PCB, Assam before commencement of construction. All other statutory clearance should be obtained by the project proponent from the competent authorities.

14. The environmental clearance accorded shall be valid for a period of 5 years for the proposed

project.

15. The above stipulations would be enforced alongwith those under the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.

(Prof. S. K. Borthakur)

Chairman, SEIAA, Assam

Bamunimaidam, Guwahati-21.

Dated: Guwahati the 21st September 2015.

Memo No. SEIAA.27/2015/EC/56-A

Copy to:-

 The Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-6 Cum Member Secretary, SEIAA, Assam for favour of kind information.

The Deputy Commissioner, Dibrugarh, Assam for favour of kind information & necessary action.

The Chairman, Dibrughar Municipal Board, Dibrughar, Assam, for favour of kind information & necessary action.

4. The P.C.C.F, HoFF, Govt. of Assam, Rehabari, Guwahati-8 for favour of kind information.

5. The Member Secretary, PCB, Assam for favour of kind information.

 The Regional Office, MoEF, Govt. of India, Low-U-sib, Lumbatngen, Near MTC Workshop, Shillong-21 for favour of kind information.

Office Copy.

(Prof. S. K. Borthakur) Chairman, SEIAA, Assam

Bamunimaidam, Guwahati-21.

## EC Condition Authenticated by DMB for compliance





Letter No:

Dated:

To The Chairman State Environment Impact Assessment Authority, Assam Bamunimoidam, Guwanati-21

Sub:- Proposal for establishment of 100TPD Municipal Solid Waste Processing facility (MSWPF) for Dibrugarh city at village Ghoramara, Dibrugarh West Revenue Circle, Dibrugarh, Assam; Regarding Environmental Clearance.

Letter no. SEIAA. 27/2015/EC/56/265 dt. 21-09-2015.

I am to acknowledge the receipt of the above referred letter conveying "Environmental Clearance" to the MSWPF project.

I do agree to carry out all the relevant terms and conditions detailed in your letter during construction of the project as well as during operation of the MSWPF plant. Dibrugarh Municipality Board will abide by the prevailing MSW (Management & Handling) Rules, 2000.

This is for your kind information and necessary action.

Yours faithfully

(Mrs. Anuradha Dey) Chairperson,

Dibrugarh Municipal Board

Letter No: bm/swm/stf/193/2011/2239-40

Dated: 20-11-2015

Copy to:- Y

The Deputy Commissioner, Dibrugarh, for kind information.
 The Project Director, AUIIP, Guwahati for kind information and necessary action.

(Mrs. Anuradha Dey) Chairperson,

Dibrugarh Municipal Board

## **APPENDIX 5 Contd..**

## **Compliance Statement- Environmental Clearance**

Со	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
Α.	Specific Condition		
I.	Construction & Design Stage		
1.	House to house collection/ community bin collection/ collection of waste from slums and squatters/commercial/official complexes shall be organized by DMB.	In design house to house collection has been considered and already in few pockets DMB started the process	House to house collection to be cover for entire Dibrugarh within 3 months of operation of landfill
2.	Bio-medical waste, horticulture waste, construction debris, hazardous waste, dairy waste shall be managed separately as per provision of existing rules and regulations.	Different type of wastes would be collected separately as per National Rules. Considered in the design	Already maintained.
	As proposed, adequate link routes are to be developed for proper collection of Municipal Solid Waste(MSW) from various source locations and for smooth transportation of the same to the identified treatment/disposal facilities.	Collection and Transportation route for management of solid waste already planned and which will be rectified again after purchase of new vehicles and equipments under the said sub project	New vehicles will be purchase under the project and after increase in number of transport vehicle route to be developed/revised for minimization of transportation time.  All action will be completed within 6 months of commissioning of improved SWM system
4.	Color coded bins shall be provided at every house hold and source segregation shall be ensured.	Under the sub project 50000 numbers 25-litre household dustbins is to be provided for the residents for segregation of waste at source (biodegradable and non-biodegradable)	After implementation of project within 3 months colour coded bins will be distributed
5.	The waste receptacles and the garbage lifting machineries should conform to each other.	Considered under procurement and utilization process	
6.	Manpower should be planned in such a manner that collection and transport of waste is achieved upto desired level.	Additional manpower will be engaged in DMB for running improved SWM system	
7.	Waste from slaughter houses, meat & fish markets, fruits and vegetable markets which are biodegradable in nature shall be managed to make use of such waste scientifically.	Waste from slaughter houses, meat & fish markets, fruits and vegetable markets which are biodegradable will be collected separately under improved system and utilize in compost plant.  This is considered in the design	

Compliance Requirement – EC Condition		Specific actions and design considerations	Remarks – Action plan
8.	Waste (garbage, dry leaves) shall not be burnt.	Dry leaves will be collected after road sweeping. Burning of dry leaves would be avoided	
9.	Stray animals shall not be allowed to move around waste storage facilities and shall be managed in accordance with the State laws.	Waste storage will be planned under improved SWM system with use of cover so that Stray animals unable to move around waste bin	
10.	The municipal authority shall notify waste collection schedule and likely method to be adopted for public benefit in the town.	The municipal authority will notify improved waste collection schedule for public	After commissioning of improved system
	The MSW shall be sent to the treatment facility after collection. Secondary collection point (SCPs) shall be constructed. Adequate storage facilities and hygienic conditions are to be provided in the SCPs.	As per design the MSW would be sent to the treatment facility after collection from secondary point or from direct household level.  Hygienic condition will be maintained at all secondary collection point	
12.	The Municipal authority shall undertake phased program to ensure community participation in waste segregation  Storage of MSW	Involvement of community in waste segregation is already planned	
1.	Municipal authority shall establish and maintain storage facilities in a such a manner as they do not create unhygienic and in-sanitary condition around it.	Municipal authority would establish and maintain storage facilities in hygienic manner	
2.	Storage facilities to be set up by municipal authority or any other agency shall be so designed that wastes stored are not exposed to open atmosphere and shall be aesthetically acceptable and user-friendly.	Covered storage facility/ bins have been procured and used presently. Waste will be not stored in open atmosphere and bins will be placed at common place so aesthetically accept by local people	
3.	Storage facilities or bins shall have easy to operate for handling, transfer & transfer & transportation of waste. Bins for storage of biodegradable waste shall be green, storage of recyclable shall be white and for storage of other waste shall be black.	Storage of different category of waste to be done as per colour coded bins which to be provided under improved solid waste management system	Will be provided during and just after commissioning of improved system
4.	Manual handling of waste shall be prohibited.	Manual handling / double handling of waste will be no longer be continued. As per design source segregation in colour coded bin has been planned	
III.	Waste Treatment Facility		
1.	Segregated organic waste shall be sent to the compost plant in covered manner as proposed.	As per compost plant design segregated waste will be sent to compost plant	
	Windrow composting shall be conducted for stabilizing the organic portion of the waste.	Windrow composting would be set up under waste processing unit	
3.	The composting plants at treatment facilities shall have waste receiving platform. Window platform, monsoon shed, Preparatory section, curing area, refinement section, quality check Area,	As per compost plant design all sections (waste receiving platform. Windrow platform, monsoon shed, Preparatory section, curing area, refinement section, quality check Area,	

Со	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
	godown. Each section should be constructed with the general requirement proposed in the report.	godown) would be provided in compost plant	
4.	Receiving platform of concrete slab covered with shed will be provided for further segregation and maintaining waste before sending to windrow area. Gutters to collect leachate will be provided on the platform and leachate will be drained into and stored in the leachate pit(s). Leachate will be finally brought for treatment and discharge.	Waste will be further segregated before sending to windrow. Leachate will be collected in pit and after treatment it will be discharge. Lechate collection pit considered in the design.	
5.	Fence and Buffer zone will be provided surrounding the transfer section/compost plant. Water taps will be provided for daily cleaning and treatment shall be done for the cleaning waste water properly to comply the standard as prescribed by CPCB/MoEF.	As per design provision adequate buffer zone would be provided around compost plant and landfill facility. Washing platform will also be provided at treatment and disposal facility sites and waste water will be treated before discharge and conforming standard of CPCB	
6.	Adequate roof shed and concrete platform/roof should be provided to all sections.	Adequate roof shed and concrete platform/roof would be provided at compost plant's different section	
7.	Access to loaders should be ensured.	Being ensured	
8.	Ambient air quality monitoring will be carried out during operation period and report shall be made available to public.	Ambient air quality monitoring will be conducted during operation phase as per EMP and condition of clearance and report will be disclosed in website and to public	Monitoring will be carried out as per accepted EMP and monitoring plan after starting of defect liability and then operation phase
IV.	Pre - processing Area		
1.	The size and design of the pre- processing area should be adequate for proper storage of incoming MSW.	Pre- processing area is designed to store entire MSW	
2.	Pre-processing area should consist of permanent roof shed over platform, partition wall for protection against wind and noise, concrete platform, Weighbridge facility, Waste loading, Waste segregation(if required) and Waste shredding facilities etc. Access to loaders should be ensured.	Pre-processing area would be consist of permanent roof shed over platform, partition wall for protection against wind and noise, concrete platform, weighbridge facility, Waste loading, Waste segregation and Waste shredding facilities etc.	
3.	Recyclables will be segregated into 5 categories (papers, plastics, rubbers, metals and glasses) and placed in the respective containers and routed through appropriate vendors. Non-recyclables will be sent to landfill site.  Battery wastes, E-wastes & Hazardous	Recyclable materials will be segregated at household levels and at pre processing level as per the categories mentioned. Recycled materials will be sold to respective registered venders. Non recyclable materials will be dispose to landfill site Battery wastes, E-wastes &	
	wastes shall be handled and disposed as	Hazardous wastes will be not mixed with MSW. Those will be collected	

Со	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
	per respective rules framed under E.P. Act 1986.	separately and dispose to hazardous waste disposal site as per Environment Protection (E. P) 1986 and Hazardous waste handling rules	
V.	Processing Area		
1.	The processing area comprises of mass composting and curing activity.	In processing area there will be mass composting and curing activity. Those are part of design of processing unit before composting	
2.	Adequate residence time should be provided for compostable waste in mass windrow.	Under processing unit sufficient time will be provided for maturing in mass windrow	
3.	Proper space is required for easy movement for loader or operation of vehicle.	Sufficient space will be provided at processing unit for easy movement for loader or operation of vehicle.	
4.	The mass composting pad surface and curing area is paved to avoid erosion from runoff. Grading the surface of the pad to meet the optimal slope will also help to prevent erosion by allowing smooth drainage.	The mass composting pad surface and curing area will be paved to avoid erosion from runoff. Grading the surface will be done to prevent erosion and smooth draining	
5.	This facility will be equipped with hopper, feeding conveyor, dual trammel, reject conveyor and transfer conveyor. The under sizes digested material including manure will be conveyed by transfer conveyor to curing area and rejects shall be conveyed by trolley to transfer station.	Processing facility will be equipped with hopper, feeding conveyor, dual trammel, reject conveyor and transfer conveyor. Manure will be conveyed to transfer station	
6.	Digested material will be stacked in the curing area to remove moisture from digested material for effective screening and to protect the digested material from rain. Moisture shall be measured.	Composting materials after segregation will be placed for curing to remove moisture	
7.	Adequate drainage at compositing facilities should be provided in order to prevent water logging.	Adequate drainage at compositing facilities would be provided (as per design) around the active areas in order to prevent water logging.	
VI.	Post Processing Area		
1.	The post processing area at compositing facilities shall be used for screening, size reduction and bleeding operations for compost, conducting tests to ensure quality of compost, preparing compost for market and also for storing compost.	The post processing area at compositing facilities would be used for screening, size reduction and bleeding operations for compost. Quality test for compost will be conducted to ensure quality of compost, preparing compost for market.	
2.	Proper vibro-screen, density separator shall be installed to segregate metals, pebbles, sand and all undigested materials.	Proper vibro-screen, density separator will be installed for all kind of segregation	
3.	Adequate storage capacities should be incorporated into site design for compositing facilities. Backup storage	Adequate storage capacities should be incorporated into site design for compositing facilities. Backup storage	

Compliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
and disposal capacity should also be ready to accommodate demand of seasonal markets.	and disposal capacity should also be ready to accommodate demand of seasonal markets.	pian
Buffer zone should be provided to minimize the odour and transport of bio aerosols along download of the facility.	Buffer zone will be provided around treatment and disposal facility to minimize the odour	Buffer zone will be developed at later phaseof construction
5. Sprinklers/water spraying facility should be installed in order to reduce the dust generation at site during the construction work.	Water sprinkling facility would be installed at all working areas in order to reduce the dust generation at site during the construction work and operation	
6. On site road leading to the tipping and storage areas should be paved or graveled roads to accommodate movement of large vehicles even during adverse weather conditions. Roads shall be designed to provide adequate space for turning. The roads at dumping areas should be designed to accommodate delivery by all sorts of vehicles.	Internal road will be developed after consideration of movement of large vehicles, delivery of all materials	
7. Inert materials and rejects of compost shall be transported to landfill site.	As per landfill site design Inert materials and rejects of compost will be transported to landfill site. Capacity of landfill site considered accordingly	
8. Ventilation arrangement should be ensured in case of close siding.	Would be done as per design provision	
VII. Landfill Sanitary Facility		
1. Semi-Aerobic landfill system shall be constructed as proposed.	For disposal of MSW Semi-Aerobic landfill system will be developed	
<ol> <li>The sanitary landfill shall include following features: Section Embankment, Disposal ground, Leachate Collection and Removal System, Municipal Solid Waste Inspection area, Storm Water drainage system, Green belt/buffer area/lawns, Boundary wall, Weigh Bridge, Leachate Treatment plant, Gas collection system if required, water supply system, Quality control laboratory, Boundary wall and Fencing, Roads and street lighting, Office block, Shed for machinery storage and parking, vehicle washing platform and other basic amenities.</li> <li>Landfill layout should be designed to</li> </ol>	As per design and MSW rules the sanitary landfill facility will include following features: Section Embankment, Disposal ground, Leachate Collection and Removal System, Municipal Solid Waste Inspection area, Storm Water drainage system, Green belt/buffer area/lawns, Boundary wall, Weigh Bridge, Leachate Treatment plant, Gas collection system, Quality control laboratory, Boundary wall and Fencing, Roads and street lighting, Office block, Shed for machinery storage and parking, vehicle washing platform and other basic amenities.	
cater landfill as per MSW (M&H) Rules 2000 and guidelines prescribed by CPCB/MoEF for 30 years as mentioned in the EIA report.	as per MSW (M&H) Rules 2000 and guidelines prescribed by CPCB/MoEF for 30 years	

Coi	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
4.	The landfill should be designed in line with MSW Rules, 2000 having minimum environmental impact.	The landfill is designed in line with MSW Rules, 2000 having minimum environmental impact (Ref EIA report including EMP)	
5.	The landfill should be developed in two phases.	Landfill will be developed in phases as mentioned in DPR and EIA report	
6.	The landfill should be of the capacity to handle 60 MT waste in 1st phased as proposed.	Landfill is planned accordingly	
7.	Adequate bottom liner system and top linear system shall be provided. Appropriate thickness of the HDPE liner for the bottom liner as well as top liner system shall be provided to prevent and damaging impact in surrounding area and to prevent water infiltration.	1.5 mm thick HDPE geo-membranes liner will be provided on the top of the 900 mm thick clay liner to prevent and damaging impact in surrounding area and to prevent water infiltration.	
8.	The coefficient of permeability as proposed should be used as guiding factor.	Proposed coefficient of permeability will be used for infiltration and leachate generation	
9.	Leachate produced from infiltration of water percolated through the dumped waste layers will be collected in a pond(aeration pond) through properly sized perforated pipes (main leachate pipes and branch leachate pipes) embedded in graded gravels/boulders as filter material.	Leachate collection lateral pipes would be provided above the membranes in 300 mm thick silt sand. The 150 mm collection pipes shall be provided at a spacing of 20 m c/c. The pipes shall be perforated at the bottom and shall be laid at a slope of 1 in 100 and will be connected to the Header pipes These Header pipes will be ultimately connected to the inlet of the leachate treatment tank.	
	The drainage should be designed with special care to avoid any overflow.	The drainage has been designed with special care to avoid any overflow.	
	Leachate collection, treatment and removal system should be developed for effective collection of leachate and reducing the risk of contamination of ground water.	Leachate collection, treatment and removal system would be developed for effective collection of leachate without contamination of ground water	
12.	Daily cell cover is to be provided as per norms.	Will be provided as per MSW Rules	
	As per the Municipal Solid Waste (Management and Handling) Rules 2000, DMB should declare a nodevelopment buffer zone around the landfill site and the same should be incorporated in the town planning department land use plans.	DMB will declare a no-development buffer zone around the landfill site and the same would be incorporated in the town planning department land use plans.	Within 3 months. Before starting of the construction work DMB will take necessary action
1.	A buffer zone of no-development shall be	A buffer zone of no-development will	The action will be
	maintained around landfill site and shall be incorporated in the Town Planning Department's land-use plans.	be maintained around landfill site and will be incorporated in the Town Planning Department's land-use plans.	taken accordingly.

Со	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
	Landfill site shall be fenced or hedged and provided with proper gate to monitor incoming vehicles or other modes of transportation.	As per design landfill site will be fenced and monitoring of incoming vehicles or other modes of transportation will be done from gate	
	Landfill site shall be well protected to prevent entry of unauthorized persons and stray animals.	Landfill site will be well protected to prevent entry of unauthorized persons and stray animals.	
4.	Approach and other internal roads for free movement of vehicles and other machinery shall exist at the landfill site.	At landfill approach and other internal roads will be constructed	
5.	The landfill site shall have wastes inspection facility to monitor wastes brought in for landfill, office facility for record keeping and shelter for keeping equipment and machinery including pollution monitoring equipments.	The landfill site will have wastes inspection facility to monitor wastes brought in for landfill, office facility for record keeping and shelter for keeping equipment and machinery including pollution monitoring equipments.	
6.	Provisions like Weigh bridge to measure quantity of waste brought at landfill site, fire protection equipments and other facilities as may be required shall be provided.	Weigh bridge will be provided to measure quantity of waste brought at landfill site, fire protection equipments and other facilities as may be required will be provided.	
7.	Utilities such as drinking water (preferably bathing facilities for workers) and lighting arrangements for easy landfill operations when carried out in night hours shall be provided.	Utilities such as drinking water (preferably bathing facilities for workers) and lighting arrangements for easy landfill operations when carried out in night hours will be provided as per design	
8.	Safety provisions including health inspections of workers at landfill site shall be periodically made.	Safety provisions including health inspections of workers at landfill site will be periodically made as per H & S plan.	
IX.	Leachate Collection, Treatment & Removal System		
1.	Suitable bottom liner system shall be provided with adequate slope towards the leachate collection pipes.	Suitable bottom liner system will be provided with adequate slope towards the leachate collection pipes.  Considered in design	
2.	As proposed, HDPE pipes with adequate strength, diameter should be laid at suitable slope and spacing and leachate collection.	As proposed, HDPE pipes with adequate strength, diameter should be laid at suitable slope and spacing and leachate collection.	
3.	Perforated drainage pipes shall be provided for rapid transport of fluids. Adequate slope and spacing should be provided.	Perforated drainage pipes will be provided for rapid transport of fluids. Adequate slope and spacing shall be provided.	
4.	These pipes should be of good quality HDPE with appropriate pressure-specification and perforations.	The pipes would be of good quality HDPE with appropriate pressure-specification and perforations.	
5.	RCC collection sump shall be constructed.	RCC collection sump will be constructed.	
6.	Leachate shall be treated in the leachate treatment plant and disposed or re-used	Leachate will be treated in the leachate treatment plant and disposed or re-used in landscaping after	

Со	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
	in landscaping after compliance of the standards prescribed by CPCB/MoEF.	compliance of the standards prescribed by CPCB/MoEF.	
	The component that is most vulnerable to compressive strength failure is the drainage layer piping. Leachate collection system piping can fail by excessive deflection which may lead to bucking or collapse. All components of the leachate collection system must have sufficient strength to support the weight of the overlying waste, cover system and post closure loadings as well as stresses from operating equipment.	All components of the leachate collection system would have sufficient strength to support the weight of the overlying waste, cover system and post closure loadings as well as stresses from operating equipment.	
8.	The depth of the drainage layer around the pipe should be deeper than the diameter of then pipe. The pipe should be placed in trenches to provide the extra depth. In addition, the trench serves as a sump for leachate collection.	The depth of the drainage layer around the pipe would be deeper than the diameter of the pipe. The pipe will be placed in trenches to provide the extra depth. In addition, the trench serves as a sump for leachate collection.	
9.	As pipe can be susceptible to particulate and biological clogging similar to drainage layer material regular maintenance should be ensured.	As pipe can be susceptible to particulate and biological clogging similar to drainage layer material regular maintenance would be ensured. Further the perforated pipes will be covered by geo-textile material in order to stop the clogging.	
X.	Storm water collection and drainage system		
1.	Storm water drainage system should be designed to minimize the leachate generation and to prevent contamination of surface water through runoff from dumpsite. The storm water should not be allowed to enter the active cell of the landfill. Stagnation must be avoided. Storm water from the site will be collected in a detention pond prior disposal.	Storm water drainage system is designed to minimize the leachate generation and to prevent contamination of surface water through runoff from dumpsite. Further due care will be taken so that storm water will not enter into the active cell.	
2.	The project site should be suitable leveled and embankments should be constructed in such a manner that under no circumstances the storm water from outside area can enter the project site or the project site runoff inundates surrounding roads or adjoining area located nearby.	The project site would be suitable leveled and embankments would be constructed in such a manner that under no circumstances the storm water from outside area can enter the project site or the project site runoff inundates surrounding roads or adjoining area located nearby.	
<b>XI.</b>	Transport and other conditions  Adequate Buffer zone should be	Adequate Buffer zone would be	
1.	provided to minimize the transport of odour and bio aerosols downwind of the facility.	provided as per design to minimize the transport of odour and bio aerosols downwind of the facility. Buffer zone development is already considered in design	

Со	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
	Adequate transport management plan should be in place for uninterrupted traffic flow. Roads shall be designed to provide adequate turning and dumping areas to accommodate delivery by all types of vehicles.	Adequate transport management plan would be in place for uninterrupted traffic flow. Roads will be designed to provide adequate turning and dumping areas to accommodate delivery by all types of vehicles.	
3.	On site roads should be paved or graveled roads leading to the tipping area and storage areas to accommodate movement of large vehicles during adverse weather conditions.	On site roads would be paved or graveled roads leading to the tipping area and storage areas to accommodate movement of large vehicles during adverse weather conditions.	
4.	Adequate lighting should be provided in streets and working areas for ensuring operation and security	As per design adequate lighting would be provided in streets and working areas for ensuring operation and security	
A.	Specific Conditions-For Operation Stage:		
I.	Collection and Transport system		
1.	All the vehicles shall be used for transportation of MSW from Processing facility to Landfill site must have suitable tracking system.	All the vehicles will be used for transportation of MSW from Processing facility to Landfill site would have suitable tracking system.	
2.	All vehicles shall be fitted with fire extinguishers and first aid kit.	All vehicles will be fitted with fire extinguishers and first aid kit.	
3.	Medical chec ups of drivers and other field staff should be carried out from time to time.	Medical checkups of drivers and other field staff would be carried out from time to time.	
4.	During transportation the container shall remain closed from all side and shall be opened at the time of disposal of the waste only. Each container should be inspected atleast once in a week for any leakage spillage problem.	During transportation the container will be remain closed from all side and will be opened at the time of disposal of the waste only. Each container should be inspected atleast once in a week for any leakage spillage problem.	
5.	The transporter shall be made about the time of wastes and quantities	The transporter will be made about the time of wastes and quantities	The action will be taken accordingly during implementation stage.
II.	Segregation and reuse of Recycling Materials		
1.	Recyclables will be segregated at compost plant as well as at transfer station	Recyclables will be segregated at compost plant as well as at transfer station.	
2.	Wastes other than biodegradable and recyclables after segregation will go to landfill as per specifications of Schedule III of MSW (M&H) Rules 2000.	Wastes other than biodegradable and recyclables after segregation would go to landfill as per specifications of Schedule III of MSW (M&H) Rules 2000.	
3.	As proposed manual segregation of recyclable material (paper, glass, plastics, rubber and metal) will take place at the transfer station platform. Recyclable material will be segregated	As proposed in design manual segregation of recyclable material (paper, glass, plastics, rubber and metal) will take place at the transfer station platform. Recyclable material	

Compliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
by adequate number of workers equipped with all safety tools and equipment.	will be segregated by adequate number of workers equipped with all safety tools and equipment.	
III. Operation at composting plants		
Daily log of MSW handled in the facilities should be recorded and kept in place.	Daily log of MSW handled in the facilities would be recorded at compost plant and kept in place.	
<ol> <li>Weighbridge should be used for quantification of waste. Weighbridges should be calibrated by independent agency on regular basis.</li> </ol>	Weighbridge would be used for quantification of waste. Weighbridges will be calibrated at definite interval by independent agency	
3. The number of vehicles, number of trips by each vehicle, quantity of waste transported by should be recorded at all facilities.	The number of vehicles, number of trips by each vehicle, quantity of waste transported by would be recorded at all facilities.	
4. The organic solid waste shall be stabilized through microbial action.	The organic solid waste will be stabilized through microbial action.	
5. As proposed windrow shall be turned twice a week for oxygenation. Active composting shall be followed by curing at bunker for adequate time period as and when required.	Windrow will be turned twice a week for oxygenation. Active composting will be followed by curing at bunker for adequate time period as and when required.	
6. In the mass windrow, adequate moisture content is to be maintained throughout the fermented cycle.	In the mass windrow, adequate moisture content is to be maintained throughout the fermented cycle.	
7. Waste should be stacked in adequately spaced rows.	Waste would be stacked in adequately spaced rows.	
8. Ground compaction and leaving shall be provided in the area occupied by the composting bunkers, curing pads and roads.	Ground compaction and leaving will be provided in the area occupied by the composting bunkers, curing pads and roads.	
<ol> <li>Water shall be supplied to the piles to maintain the desired moisture content. Any leachate or runoff from the piles will be collected and treated or added back to a batch of incoming MSW to increase its moisture content.</li> </ol>	Water will be supplied to the piles to maintain the desired moisture content. Any leachate or runoff from the piles will be collected and treated or added back to a batch of incoming MSW to increase its moisture content.	
10. Quality control shall be ensured for physical, chemical and biological parameters. On site laboratory facility should be provided with skilled manpower.	Quality control will be ensured for physical, chemical and biological parameters. On site laboratory facility should be provided with skilled manpower.	
11. Finished product shall be packed in HDPE bags or polybags.	Finished product will be packed in HDPE bags or polybags for sale.	
12. In order to ensure safe application of compost the specification for compost quality shall be met as prescribed MSW(M & H) Rules 2000.	In order to ensure safe application of compost the specification for compost quality will be met as prescribed MSW(M & H) Rules 2000.	
13. Necessary precautions shall be taken to minimize nuisance of order, flies, rodents, bird menace and fire hazards.	Necessary precautions will be taken to minimize nuisance of order, flies, rodents, and bird menace and fire hazards.	

Со	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
	Ambient air quality monitoring shall be regularly carried out particularly for checking odour, nuisance at down-wind direction on the boundary of processing plant.	Ambient air quality monitoring will be regularly carried out particularly for checking odour, nuisance at downwind direction on the boundary of processing plant.	Monitoring will be carried out at definite interval and as per EMP
	Routine operation and maintenance scheme should be complemented by Emergency Response Protocol (ERP) to carry out emergency repairs and damage controls.	Routine operation and maintenance scheme would be complemented by Emergency Response Protocol (ERP) to carry out emergency repairs and damage controls.	
	The compost and leachate should comply with quality standards proposed in MSW rules	The compost and leachate would comply with quality standards proposed in MSW rules	
	Buffer zone should be provided to minimize the odour and transport of bio aerosols along downwind of the facility.	Buffer zone would be provided as per design to minimize the odour and transport of bio aerosols along downwind of the facility.	
IV.	Operation at Landfill		
1.	The landfill facility operator must ensure that only the residual inert material and rejects of compost plant, sewer silt is disposed.	At proposed landfill facility it is ensured that only the residual inert material and rejects of compost plant, sewer silt will be disposed	
2.	Disposal of construction debris at landfill is not preferably being allowed.	Disposal of construction debris at landfill will be not done	
3.	The waste transported at landfill facility shall be reported with date, time, waste quality etc.	The waste transported at landfill facility will be reported with date, time, waste quality etc. and these will be recorded	
4.	The landfill shall be compacted during active operations on daily basis and covered as per requirement.	The landfill will be compacted during active operations on daily basis and covered as per requirement.	
5.	Suitable design slope shall be maintained in the sanitary landfill.	Suitable design slope will be maintained in the sanitary landfill.	
6.	The actual stability shall be tested at regular interval.	The actual stability will be tested at regular interval.	
	An intermediate liner should be provided before onset of monsoon.	An intermediate liner would be provided before onset of monsoon.	
8.	The final cover shall be laid as per construction requirements and MSW regulations to enhance surface drainage, minimize infiltration, vegetation and control the release of the landfill gases. To ensure the rapid removal; of rainfall from the completed landfill and to avoid the formation of piddles, the final cover should have a requisite slope	The final cover will be laid as per construction requirements and MSW regulations to enhance surface drainage, minimize infiltration, vegetation and control the release of the landfill gases.	
9.	Sufficient distance is to maintain to avoid circular collapses. The geotechnical investigations on reports should be consulted for ensuring adequate safety factor.	Sufficient distance is to be maintained to avoid circular collapses. The geotechnical investigations on reports would be consulted for ensuring adequate safety factor.	
10.	In constructing the road accessing from the Dibrugarh and adjoining area to the landfill site the current flow of rainwater	In constructing the road accessing from the Dibrugarh and adjoining area to the landfill site the current flow of	

Compliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
in the rainy season could be prevented. So that the drain pipe needs to be big enough for the flow of rainwater from the upper reaches of the access road to the lower reaches of the access road.	rainwater in the rainy season would be prevented. So that the drain pipe needs to be big enough for the flow of rainwater from the upper reaches of the access road to the lower reaches of the access road.	
11. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generations. The ambient noise levels should conform to the standards prescribed under EPA rules, 1989 viz. 75 db(A) Leq (daytime) and 70 db(A) Leq (night time) and its subsequent amendments.	Ambient noise level would not exceed the permissible limit. The overall noise levels in and around the plant area will be kept well within the standards by providing noise control measures as per EMP	
12. Green belt shall be developed atleast 33% of the land area for proposed project to be covered by plantation.	Green belt will be developed at least 33% of the land area for proposed project to be covered by plantation.	Plantation will be done as per design and to be completed before operation
13. All internal roads should be concreted/pitched. Proper lighting and proper pathway inside the premises should be constructed to ensure safe vehicular movement. Provision of separate pathways for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises. Solar lighting should be used as far as practicable.	All internal roads would be concreted/pitched. Proper lighting and proper pathway inside the premises would be constructed to ensure safe vehicular movement. Vehicles would conform to pollution under control (PUC) norms. Proper housekeeping will be maintained within the premises.	
14. Health and safety of workers shall be ensured. Workers shall be provided with adequate personal protective equipment (PPE) as per proposal and sanitation facilities. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories act.	ensured. Workers shall be provided with adequate personal protective equipment (PPE) as per proposal and sanitation facilities. Occupational health surveillance of the workers will be done on a regular basis and records maintained as per the factories act.	
15. The implementation and monitoring of Environmental Management Plan should be carried out as proposed.	The implementation and monitoring of Environmental Management Plan would be carried out as proposed.	
16. Corporate social responsibility programs should be carried out and shall be adopted as mentioned in EIA report.	Corporate social responsibility programs would be carried out and shall be adopted as mentioned in EIA report.	
V. Monitoring and Landfill facilities		

Compliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
Monitoring of the ambient air quality, surface water quality shall be conducted as specified in MSW rules.	Monitoring of the ambient air quality, surface water quality will be conducted as specified in MSW rules	Monitoring will be done at definite interval
2. Monitoring wells should be set up to monitor leakage leachate into ground water. Atleast 4 monitoring wells should be set up at each site to monitor ground water flow in all possible directions. The monitoring wells can be located in consultation with district administration/PHED.	Monitoring wells will be set up to monitor leakage leachate into ground water. Atleast 4 monitoring wells would be set up at each site to monitor ground water flow in all possible directions. The monitoring wells will be located in consultation with district administration/PHED.	
3. The surface water, ground water, air quality, landfill gas, leachate, incoming waste etc. should be monitored as per the proposed environmental monitoring plant.	The surface water, ground water, air quality, landfill gas, leachate, incoming waste etc. would be monitored as per the proposed environmental monitoring plan	
The monitoring network is to be expanded/modified as and when situation required.	The monitoring network is to be expanded/modified as and when situation required.	
VI. Plantation at landfill site: A vegetative cover shall be provided over the completed site in accordance with the following specifications		
Selection of locality adopted non-edible perennial plants that are resistant to drought and extreme temperatures shall be allowed to grow.	Locality adopted non-edible perennial plants that are resistant to drought and extreme temperatures will be selected for plantation	
2. The plants grown be such that their roots do not penetrate more than 30 cms. This condition shall apply till the landfill is stabilized.	The plants grown will be such that their roots do not penetrate more than 30 cms. This condition shall apply till the landfill is stabilize	
Selected plants shall have ability to thrive on low-nutrient soil with minimum nutrient addition.	Selected plants will have ability to thrive on low-nutrient soil with minimum nutrient addition.	
Plantation to be made in sufficient density to minimize soil erosion.      C. Closure of the Site & Post Closure	Plantation will be done in sufficient density to minimize soil erosion.  The post – closure care of landfill site	
cares: The post – closure care of landfill site should be conducted for at least fifteen years and long term monitoring or care plan shall consist of the following.	will be conducted for at least fifteen years Long term monitoring to be continued	
Maintaining the integrity and effectiveness of final cover making repairs and preventing run-on and run off from eroding or otherwise damaging the final cover.	Will be maintained the integrity and effectiveness of final cover making repairs and preventing run-on and run off from eroding or otherwise damaging the final cover.	
Monitoring leachate collection system to ensure no overflow of leachate.	Leachate collection system will be monitored to ensure no overflow of leachate.	
3. Monitoring the influent and effluent quality at the sludge and leachate treatment plant.	The influent and effluent quality of the sludge and leachate treatment plant will be monitored	

Compliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
Maintaining and operating the landfill gas collection system to meet the standards.	To meet the standards the landfill gas collection system will be monitored during operation	
<ol> <li>Adequate venting system should be provided for venting gas. The gas collected in the vent layer shall be collected and vented through vent pipes.</li> </ol>	At landfill adequate venting system would be provided for venting gas	
VII. Additional Conditions		
The L. P. School located near the proposed landfill site be shifted to a safe distance by the authority concern before construction of the proposed site.	Before construction of the proposed site L. P. School will be shifted	The action will be taken before construction.
The existing landscape shall be maintained to the extent of maximum possible way.	The existing landscape will be maintained to the extent of maximum possible way	
Dumping of MSW shall not be allowed in to the proposed landfill area before completion and commissioning of the project.	Dumping of MSW at new landfill will be started after commissioning of the project.	
4. The commitment made in the Meeting held on 22/07/2015 in the Conference Hall of Deputy Commissioner's office, Dibrugarh before the public of Lekai area in connection with establishment of Solid Waste Management Project at Lekai, Ghoramara, Dibrugarh shall be complied along with the compliance of the EIA report.	The commitment made in the Meeting held on 22/07/2015 in the Conference Hall of Deputy Commissioner's office, Dibrugarh before the public of Lekai area in connection with establishment of Solid Waste Management Project at Lekai, Ghoramara, Dibrugarh will be complied along with the compliance of the EIA report.	
D. General Condition:		
The project proponent shall comply with all the environmental protection measures and safeguards recommended. MSW Rules 2000 should be followed strictly. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	DMB and project Implementation agency will comply with all the environmental protection measures and safeguards recommended. MSW Rules 2000 would be followed strictly. Community development work will be conducted through community development cell of DMB	
2. All the conditions, liabilities and legal provisions contained in the Environmental Clearance shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.	It is understood that all the conditions, liabilities and legal provisions contained in the Environmental Clearance will be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity through PPP model or direct transfer	
Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All	Kerosene or cooking gas to be provided to the labourers during construction phase. All the labourers	

Cor	mpliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
	the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permit.	to be engaged for construction works will be screened for health and adequately treated before issue of work permit.	
4.	The vehicles and MSW handling/ processing equipments shall be arranged as per EIA report and as per requirement from time to time.	The vehicles and MSW handling/ processing equipments will be arranged as per EIA report and changes may be done as per requirement	
	The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds recurring and non-recurring to implement the conditions stipulated by the SEIAA along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	As per EMP provision there is separate budget and provision of fund to be maintained for implementation of safeguard	
6.	Not further expansion or modifications in plant should carried out without prior approval of the State Environmental Impact Assessment Authority, Assam.	Expansion or modifications in plant will be not carried out without prior approval of the State Environmental Impact Assessment Authority, Assam.	
7.	In case of any violation of the conditions laid down in this Environmental Clearance, Section 16 of the Environment (Protection) Act, 1986 will be applicable.	This is agreed that in case of any violation of the conditions laid down in this Environmental Clearance, Section 16 of the Environment (Protection) Act, 1986 will be applicable.	
8.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.	This is agreed in the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.	
9.	The State Environmental Impact Assessment Authority reserves the right to add additional condition(s).	This is understood that The State Environmental Impact Assessment Authority reserves the right to add additional condition(s).	
	Safeguard measures subsequently if found necessary and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act, 1986 to ensure effective implementation of the suggested measures in a time-bound and satisfactory manner.	Safeguard measures subsequently if found necessary and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act, 1986 to ensure effective implementation of the suggested measures in a time-bound and satisfactory manner.	
11.	The project proponent should inform the public that the project has been accorded environmental clearance by the SEIAA. This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in	The project proponent already informs the public that the project has been accorded environmental clearance by the SEIAA.  Disclosure to two newspapers has been done	

Compliance Requirement – EC Condition	Specific actions and design considerations	Remarks – Action plan
the region of which one shall be in the vernacular language of the locality concerned.		
12. The project authorities should inform the State Pollution Control Board as well as the SEIAA, the date of financial closure and final approval of the project implementation.	The project authorities will inform the State Pollution Control Board as well as the SEIAA, the date of financial closure and final approval of the project implementation.	
13. Prior Consent to Establish (NOC) for the proposed project must be obtained from PCB, Assam before commencement of construction. All other statutory clearance should be obtained by the project proponent from the competent authorities.	Prior Consent to Establish (NOC) for the proposed project would be obtained from PCB, Assam before commencement of construction	
14. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project.	Landfill will be establish within 2017	
15. The above stipulation would be enforced along with those under the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Prevention) Act 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2008, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.	The above stipulation would be enforced along with all relevant Acts & Rules Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Prevention) Act 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2008, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.	

APPENDIX 6
SITE SPECIFIC ENVIRONMENT MANAGEMENT PLAN

PACKAGE- AUIIP/PR-1/DIB/DR-01

Field	Anticipated Impact	Mitigation measures	Responsible for Mitigation	Monitoring of mitigation
Utilities	Telephone lines, electric poles and wires, water lines	(i) Utilities identified, in joint verification With concerned	DSC	(i)Affected utilities Identified
	within proposed project area	departments.		(ii)Requirement of
		(ii) Contingency plan will be		contingency plan Included in
T (0) 14		prepared.	200	bid document.
Traffic Management	Impede traffic flow during	Traffic management plan and	DSC	It will be ensured that
	construction	strategy will be prepared.		contractor follow the traffic management strategy.
Social and Cultural	Ground disturbance can	(i) Consulted Archaeological	DSC	Chance Finds Protocol
Resources	uncover and damage	Survey of India (ASI) .No		
	archaeological and historical	such resources in project		
	remains	area.		
		(ii) Chance find protocol will be followed.		
		be followed.		
Construction work camps, hot	Disruption to traffic flow and	Areas selected without	PMU/PIU and DSC to	The list of selected sites will
mix plants, stockpile areas,	sensitive receptors	disturbing traffic flow and	determine locations prior to	be provided.
storage areas, and disposal		sensitive receptors and	award of construction	
areas.		residential areas not	contracts.	
		considered no discharge in		
Courses of Materials	Estruction of materials con	water body will be made.	DMII/DIII and DCC propored	(i) List has been prepared it
Sources of Materials	Extraction of materials can disrupt natural land contours	(i)Sites have been identified and prioritized which have		(i) List has been prepared. It is not a part of the bid
	and vegetation resulting in	been permitted by the	the list.	document.
	accelerated erosion,	concerned depts.		doddinent.
	disturbance in natural			
	drainage patterns, ponding			
	and water logging, and water			
	pollution.			
Disposal sites of dredge and	Cleaning of drains will	The sites have been		It insured and agreed by PIU
solid wastes	generate large amounts of	identified on agreed basis		and DSC, further
	dredge material (i.e., silt) and	and NOC have been obtained		identification is in progress.

Field	Anticipated Impact	Mitigation measures	Responsible for Mitigation	Monitoring of mitigation
	solid waste which needs to	by the contractor Further		
	be disposed in designated	identification will be done as		
	area away from sensitive	and when work progress.		
	receptors			

**Anticipated Impacts and Mitigation Measures-ConstructionStage** 

Field	Anticipated Impact	Mitigation Measures	Responsible for	Monitoring of Mitigation
			Mitigation	
Sources of Materials	Extraction of rocks and material may cause ground instability		Construction Contractor	Construction Contractor documentation
Air Quality	Emissions from construction vehicles, equipment, and machinery used for excavation and construction resulting to dusts and increase in concentration of vehicle-related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons)	of materials.  (ii)Ambient air quality analysis have been done  (iii) Water spraying will be done in dry season and tarpaulins Covers used  (iv) All heavy machineries will	Construction Contractor	(i) Location of stockpiles;  (ii) Complaints from sensitive receptors;  (iii) Heavy equipment and machinery with air pollution control devices
Traffic Management	Impede traffic flow during construction	strategy will be implemented if required.		DSC to ensure traffic management measures are implemented and traffic is not significantly impeded during construction period.
Surface water quality	Mobilization of settled silt	(i) Stockpiling of sludge will be	Construction Contractor	(i) Areas for stockpiles,

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	materials, run-off from stockpiled materials, and chemical contamination from fuels and lubricants during construction works can contaminate nearby surface water quality.	avoided during monsoon season and tarpaulin cover will be used if required.  (ii) Reuse of excess spoils will be prioritized and DSC will be consulted in case of disposal.  (iii) Silt trap will be provided if required.  (iv) Fuels and lubricants will be stored as per norms and away from water bodies.  (v) Waste generated during construction activities will be disposed in designated areas only.  (vi) Inspection will be made as per EMP only.		storage of fuels and lubricants and waste materials; (ii) Number of silt traps installed along drainages leading to water bodies; (iii) Records of surface water quality inspection; (iv) Effectiveness of water management measures.
	Increase in noise level due to dredging work –moving and excavation equipment, and the transportation of equipment, materials, and people	(i) Activities will be planned in consultation with DSC/PMU/PIU so that less disturbance occur during construction period. (ii) Horns will be used only to warn road users. (iii) Silencers, noise reducing mufflers, and portable street barriers will be used to reduce sound impact to surrounding sensitive receptors. (iv) Minimum sound level will be maintained (below 80db) will be maintained. (v) Noise level monitoring carried out and will be carried out as per EMP	Construction Contractor	(i) Complaints from sensitive receptors; (ii) Use of silencers in noise-producing equipment and sound barriers.
	Felling of the trees – affect terrestrial ecological balance	(i) Only vegetation in project area will be removed. (ii)	Construction Contractor	(i) Complaints from sensitive receptors; (ii) checking of

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		approx. 147 nos. of tree feeling will be required, joint survey conducted for permit ion from forest and environment dept., (iii) Money given to forest deptt. for plantation. (iv) Tree felling done		conservation management plan for tree species
Existing Infrastructure and Facilities	Disruption of service (if any) and damage to existing infrastructure at specified project location	i) Utilities identified, in joint verification With concerned departments.  (ii) Contingency plan will be prepared.	Construction Contractor	Existing Utilities Contingency Plan
Disposal sites of dredged sludge and solid wastes	Cleaning of drains will generate large amounts of dredge material (i.e., silt) and solid waste which needs to be disposed in designated areas away from sensitive receptors  Preliminary design indicates generation of 1172 cum of drainage sludge	The sites have been identified on agreed basis and NOC have been obtained by the contractor Further identification will be done as and when work progress.(e.g. away from sensitive receptors.)  Physico chemical testing done before disposal.	Construction Contractor	DSC to monitor contractors on disposal of dredge and solid wastes at pre-identified agreed site
Landscape and Aesthetics	Solid wastes as well as excess construction materials	(i) Prepared the spoil management plan; (ii) Coordination with DMB will be made for beneficial use of the sludge for development of landfill site. (iii) Used oil and lubricants will be dent to registered recycler as per law. (iv) Maximum effort will be made to reuse the sludge before disposal. (v)All wreckages and rubbish will be disposed at the	Construction Contractor	(i)Waste Management List; (ii) Complaints from sensitive receptors; (iii) PMU/PIU/DSC to report in writing that the necessary environmental restoration work has been adequately performed before acceptance of work.

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		designated place by DMB.  (vi) Request will be made to PMC/PIU/DSC for report of environmental restoration.		
Accessibility	Traffic problems and conflicts near project locations and haul road	(i) Planning will be done to avoid narrow roads for heavy vehicles. (ii) Schedule will be made for transport activities during non peak hours (iii) Entry and exit points will be located in low traffic congestion places (iv) The site will be free from all unnecessary obstructions. (v) Vehicle will be driven in highly considerate manner. (vi) Dibrugarh traffic police will be consulted for road diversions if peak hours cannot be avoided. (vii) Sign board will be provided at required places detailing nature, duration etc of the work. (viii) Necessary planks will be provided in front of the business houses and work will be completed as early as possible. (ix) Effort will be made to avoid full street closure.	Construction Contractor	(i) Traffic Management Strategy; (ii) Complaints from sensitive receptors; (iii) Number of signages placed at subproject location
Socio-Economic-Income.	Impede the access of residents and customers to nearby shops	<ul> <li>(i) Spaces will be kept between the mounds of soil.</li> <li>(ii) Walkways and metal sheets will be provided as required by the people.</li> </ul>	Construction Contractor	(i) Complaints from sensitive receptors;  (ii) Number of walkways, signages, and metal sheets

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		(iii) In critical areas maximum work force will be used to complete the work as early as possible. (iv)Consultation will be done with business houses, schools etc for fixing working hours. (v) Signboards will be provided as required.		placed at subproject location.
Socio-Economic - Employment	Generation of contractual employment and increase in	(i) Employed locals 80% of the labor force as per the present	Construction Contractor	(i) Employment records;
	local revenue	stage of work.  (ii) Most of the construction materials will be secured from local market.		(ii) records of sources of materials
Occupational Health and Safety	Occupational hazards which can arise during work	(i) Developed and being implemented site-specific Health and Safety(H&S) Plan where details have been included like PPE, barring unauthorized entry, documentation ,training etc. (ii)Qualified first aid will be provided at all the times. (iii)Medical Insurance coverage to workers will be provided. (iv)Potable water is supplied to the workers with good eating place. (v) H&S orientation training already done and will be done including visitors orientation also. (vi) Visibility vests have been provided. (vii) Moving equipment will be	Construction Contractor	(i) Site-specific Health and Safety(H&S) Plan; (ii) Equipped first-aid stations; (iii) Medical insurance coverage for workers; (iv) Number of accidents; (v) Supplies of potable drinking water; (vi) Clean eating areas where workers are not exposed to hazardous or noxious substances; (vii) record of H&S orientation trainings (viii) personal protective equipments; (ix) % of moving equipment outfitted with audible back-up alarms; (xi) Signboards for hazardous areas such as energized

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		fitted with alarms. (viii)Marks and sign boards (international standards) will be provided in all hazard prone areas. (ix) Workers will not be allowed exposure to noise above the permitted level without ear plug.		electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal.
Community Health and Safety.	Traffic accidents and vehicle collision with pedestrians during material and waste transportation	(i) Planning will be made to avoid times of peak-pedestrian activities. (ii)Liaison will be made with PMC/PIU/DSC to identify high risk areas on maps. (iv)Vehicles will be maintained through authorized dealers only. (v) Road signs will be provided and flagman will be posted. (vi)Protective fencing, ,coverage, metal planks will be provided during non construction hours. (vii)Used oil and lubricants will be sent to registered recyclers as per law and maximum effort will be made to recycle solid waste. (ix)All temporary structures, rubbish, wreckages will be removed immediately after completion of the work. (x)Request will be made to PMU/PMC/DSC in writing for certification of camp closure	Construction Contractor	(i) Traffic Management Strategy;  (ii) Complaints from sensitive receptors

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		and restoration.		
Camp sites (if needed)	Temporary air and noise pollution from machine operation, water pollution from storage and use of fuels, oils, solvents, and lubricants	(i) Consultations will be made with PMU/PMC/DSC for locating office ,sheds and plants(projects) (ii) There will be minimum vegetation removal and only permitted tree will be cut by Forest deptt. (iii)Water and sanitation facility will be provided for employees. (iv) No tree cutting will be allowed other than by forest deptt. (v) Training conducted and will be done continually. (vi) Used oil and lubricants will be sent to registered recyclers. (vii) Maximum effort will be made to reuse solid waste before disposal to designated area. (viii)All wreckages and rubbish will be disposed at the designated place by DMB. (vi) Request will be made to PMC/PIU/DSC for report of environmental restoration and	Construction Contractor	(i) Complaints from sensitive receptors; (ii) Water and sanitation facilities for employees; and (iii) PMU/PIU/DSC report writing that the camp has been vacated and restored to pre-project conditions
Social and Cultural Resources	Risk of archaeological chance finds	closure of camp.  (i) Chance find protocol will be followed strictly.  (ii) Request will be made to PMU/PMC/DSC or any authorized person for archaeological field training if	Construction Contractor	Records of chance finds

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		needed. (iii) Work will be stopped in case of chance find. (iv) PMC/DSC/PMU will be intimated for action in case of chance find.		

DSC = Design Supervision Management Consultant, H&S = health and safety, RPM = respirable particulate matter,, SPM = suspended particulate matter, DMB = Dibrugarh Municipal Board; PMU = Project Management Unit; PIU = Project Implementation Unit

APPENDIX 7 Waste / Spoil Management Plan Contract Package No:AUIIP/PR-01/DIB/DR/01



# SAFETY & HEALTH OPERATION CONTROL PROCEDURES Specific Facilities

CONSTRUCTION OF DTP DRAIN, BOX CHEVERTS AND ALLED WORKS IN DISRUGARM FROM CHAINAGE 8 TO 9500M. [CONTRACT PACKAGE NO: AUTIPIPR-01/DIB/DR/01

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57	Responsitivity
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6.0	GENERAL HERBACH OF COURSE
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	◆ RECYCLE
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AB .	Regiments.
0.1	Procedure
	<ul> <li>Spoil volume calcutations: Estimate the volumes of spalls produced from each of the construction sites.</li> </ul>
	<ul> <li>Characterization of sport Based on the type of sport characterization is done (sand stone, mud one custorials, reunable materials)</li> </ul>





### ISOLUX COROSAN

# SAFETY & HEALTH OPERATION CONTROL PROCEDURES

CONSTRUCTION OF DTP DRAW, BOX CULVERTS AND ALLIED WORKS IN DIBRUGARIH FROM CHAINAGE O TO 9500M. (CONTRACT PACKAGE NO: AURIPPER-01/DIB/DRUD1

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	<ul> <li>Mentification of possible could life.</li> </ul>
	A Servering of possible (since equivalents)
	<ul> <li>Identification of possible sale deposal sites for spect. These spoils which part be reuse shall be importly disposed in designated areas, such disposal area should be identified in project locations. Such disposal area should be safe from any recentral aspects and their should be any logic and resultinesser estate servers. Such areas reset to be identified and propriciental approval should b obtained to use 8 as specifications. The local administration must be considered and if empired permission should be abbraised from them.</li> </ul>
42	Identification and Assessment of Spoil Aspects and Impacts
	<ul> <li>There is some place is account and inclinations purify involve the Garden reach STP for during a sit division the extra carts which is presently asset from account involve. Guring inching trajects is used in macrony that are larriery blacks in covered to support one of them is now in a division and continue.</li> </ul>
7	SHOEL VOLUMES, CHARACTERISTICS AND MINISTERS
	- Volumes AdSIGS Conf.
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	Extra earth we be shifted by Thick / Competition sile to dumping yard in Address of gumping, yard. Borgamannaniatiatoosaayaca. Pla-Kerwantianshipre. Out. Clinicipal? Assort 795001.
10	Maskinning, Reporting, Review and Improvements
	<ul> <li>Monitoring. Reporting and all necessary improvements will be as Arquired.</li> </ul>
1	List of Relayant Guide Lines/ Documents
2	References



### SAFETY & HEALTH OPERATION CONTROL PROCEDURES

Spoil Management Plan (SMR)

CONSTRUCTION OF DTP DIVAN, BOX CULVERTS AND ALLIED WORKS IN DISRUGARIH FINDM CHARRADE B TO \$500M. (CONTRACT PACKAGE NOLAUIIP/PR-01/DIB/DR/01

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Earth and Service Service

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ADDRESS OF DUMPING YARD

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### **APPENDIX 8**

**Drainage Silt Analysis Report** 

Not submitted by the DSC

Not submitted by the DSC

SCANNED COPY OF AIR QUALITY, NOISE LEVEL ANDDRINKING WATER QUALOITY TESTING REPORT

Contract Package No:AUIIP/PR-01/DIB/DR/01

Not submitted by the DSC

## Contract Package No:AUIIP/PR-01/DIB/DR/01

dille	ISOLUX COROSAN
Teals	SAFETY & HEALTH OPERATION CONTROL PROCEDURES
	STRUCTION OF DTP DRAIN, BOX. CULVERTS AND ALLIED WORKS IN DIBRUGARH FROM NAGE 0 TO 9500M. (CONTRACT PACKAGE NO: AUIIP/PR-01/DIB/DR/01 OF PROJECT. DTP DRAINAGE PROJECT (DIBRUGARI(ASSAM))
1.0	Putrose
	Main purpose is to prevent account between vehicles, pedestrians and employees and also make me inconvenience to the vehicle. To situs property damage and prevent injury to personalising from site traffic and size transport.
2.5	Score
	The procedure is applicable to CORSAN Consum Construction S.A. sites and Plant preas
1.0	RESPONSIBILITY
	If it the responsibility of the cumunication Manager and an department head to implement this procedure and ensure that delegated staff under their supervision carries it but
46	Dimercial
200	Construction Manager: Person responsible for the execution of the project
5.0	LIGAL REQUESTMENT
	- 1.2 C - 2
	The Building and Other Construction Workers (Regulations of Employment and Condeions of Service) Act 1985and Central Rule 1995 Rule 45, 85 and 35, Motor Vericle Act 1986
6.0	REQUIREMENTS
61	Gereni
A12	All must write create most versions and are a potential hazard to the safety of all med varies and those employed in carrying cut this work.  All this effects should be included to the minimum, and to ensure that the works are properly and behalf with sample of any observation to all road overs should be provided.  All areas where work is going on should be clearly demanded by hard beincading and entry into these areas should be restricted in only authorized personnel.  Planting stage.
	- Plantoular attention should be given to - traffic signs: - cones: - train signs: - train hazard warring lights: - information boards; and - sele lighting: - Consider inaccestly of traffic control systems auch as femograpy bruffic lights or Stop/Gobards Access should be planting to eliminate dangerous inoverness of sele traffic (e.g. reversing of vehicles) and personnal (e.g. crossing dual carriageways) Provision of adequate lighting white working at hight All persons working on the road shall warringly variety pickets.
	On side
-	
	The working space shall be defined and "A PLACE EVERYTHING AND EVERYTHING IN-





SAFETY & HEALTH OPERATION CONTROL PROCEDURES
Trains Mindependent Plain (TMP)

CONSTRUCTION OF DTP DRAIN, BOX CULVERTS AND ALLIED WORKS IN DIBRUGARH FROM CHAINAGE 0 TO 9500M. (CONTRACT PACKAGE NO:AUIIP/PR-01/DIB/DR/01
NAME OF PROJECT: DTP DRAINAGE, PROJECT (DIBRUGARH ASSAM)

0.6	Operators / Orivers
6.5	Only Exponenced operators and covers with valid licensed has been appointed.     One copy of license has been collected.     Refreshment training conducted for all operators and drivers.     Operators Onlyers authentication and validation to durable the particular machinery displayed in the machine/vahioles.     Equipment.
0.6	Drivers are made a daily visual inspection of their vehicles include steering, brake mirrors, lights, horn, tyres and windshield wipers.     Safety Department along with Plant and mochinery department shall check the vehicle monthly basis.     All vehicles have reverse horns and alics in working projectly.     All vehicles, preventive maintenance schedule has to be followed strictly.  Roads.
	For safe operation we are following the below safety measure  - Safe width of road has been provided.
	Flag man declayed at every traffic point to control the vehicles and pedestrians.  Speed first 10km/tr within the site.  Caution board has been placed in every location within the site.  Workers are working with reflective jacket as well as required PPE's.  Read for use of pedestrian has been iderathed.  High Noise intensity reverse horn used in vehicles.  White reverse vehicles assuring Banks man.  Do's and Don't displayed at site office.
7	Loading and unloading
	Cirily authorised persons were engage for loading / unloading Malerials loaded within the permitted safe weigh limit (as per RTO) for the buck. Ensuring Soil and sand loaded trucks are covered with terpaulin write transporting. During Toolbox talks intimation has been delivered to all drivers/operators that when the driver leaves the driving seet, the engage of the truck shall be switched off, the gear engaged and parking brakes applied. On slopes, wheel blocks shall be applied. History has been provided with all vehicles. After unloading, the banks man knowing that the appears lowered before moving. Turn buckle and side sloppers used while transporting as required.





SAFETY & HEALTH OPERATION CONTROL PROCEDURES Traffic Management Plan (TMF)

CONSTRUCTION OF DTP DRAIN, BOX CULVERTS AND ALLIED WORKS IN DIBRUGARH FROM CHAMAGE 0 TO 9500M. (CONTRACT PACKAGE NO:AUIIP/PR-01/DIB/DR/01

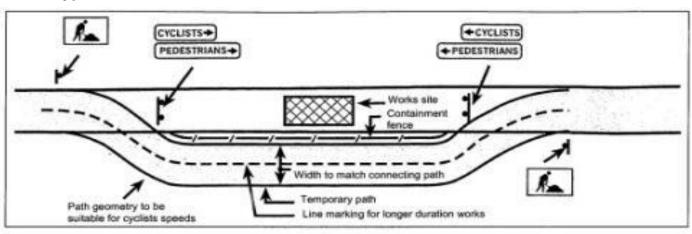
NAME OF PROJECT, DTP DEALWARD PROJECT (MIRROGARH ASSAM)

Working Area	
The working area has been respected from unauthorized entry.  The working space has been defined.  Paracular attention has been taken in working area.  Information bounds: and.  Information bounds: an	

DURING JULY TO DECEMBER 2016 ONLY ONE LOCATION DIVERSION MADE AT CHAINAGE 50 MTF. ENSURING ALL SAFETY MEASURES AS PER TRAFFIC MANAGEMENT PLAN.

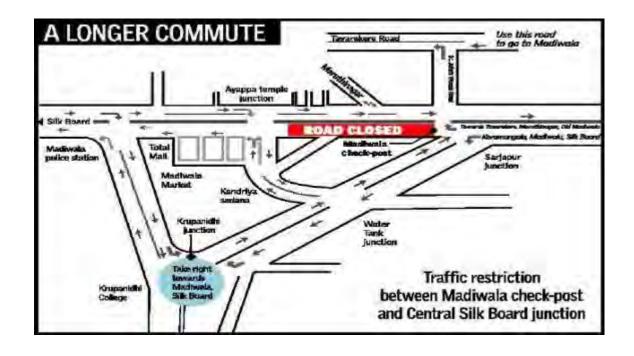


## > Typical Traffic Diversion Plan:



Source: Austroads (1999).

Figure B 5: Works on paths - shared use path diversion



### **HEALTH & SAFETY PLAN**

### Contract Package No:AUIIP/PR-01/DIB/DR/01



# ISOLUX CORSAN

HSE PLAN

Rev:0

#### PROJECT HIGHLIGHTS

a Name (Identity of the project LOAN NO.2806-IND, Consonation of DTP Dram Box Culverts A. Albed works in Disnagarh From Chulmage II to 9500 Mg. Package No. AU/IIP/PR-I/DIB/DR/01 b. Cirent

DIBRUGARH

a Location d Overall Scope of Work

PURPOSE

The purpose of this plan is to provide guidelines and requirements towards effective management of HSE activities during the execution of a Project. This HSE Manual describes the HSE program, which CORSAN shall implement (hroughout the various phases of a Project but condition apply as per the site situation. All the guideline & its implementation may varied as per site situation/condition and other situation

#### ROLES, RESPONSIBILITIES & AUTHORITY:

Head of project and construction concerned Manager/ Deputy Manager / Engineers / officers/ supervisor of sites shall be responsible to follow and implement the Rules and Regulation.

### SITE OFFICE REQUIRMENTS:-

Office Equipment and Furniture: Office equipment and furniture shall be provided and maintained in safe working order. Sufficient seating arrangements, workstations, computer systems, software requirements, mobile and other communication channels shall be made available for a safe and healthy working environment. All these equipment and furniture shall comply with safety requirements including meeting requirements of ergonomics.

Fire Safety, Suitable Fire-fighting equipment shall be provided at selected location for any fire incidences. All personnel shall be provided training in and made familiar with evacuation procedures, escape routes, firefighting, and first-aid and safety exits.

Furnishings & Fittings: When arranging furniture and fitting in any office space, care shall be taken to ensure that co furniture shall block or restrict movements in walkways, comdors or other escape routes.

Electrical: No office electrical equipment shall be used in faulty or unsafe conditions. Leads on equipment shall not be routed in such way that they may cause a tripping hazard across walkways, corridors or open spaces, All electrical appliances must be routed through an RCCB. Regular inspections of electrical cables and distribution boards must be ensured

Flammable material and solvents: All flammable liquids (such as toners for photocopiers, toletines, disinfectants, etc.) shall be handled and stored with care. Only a minimum quantity for ready use shall be stored. They should be protected from exposure to direct sunlight and away from any source of freet, potential ignition or naked frame.

First Aid Box: Sufficient quantities of First-Aid Boxes shall be provided and kept conspicuously identified at the site office. The contents of First-Aid Boxes as specified in BOCW Act (Appendix A) shall be made available. List of Firstaiders during emergency situations with their contact numbers and location of work in the site area must be maintained. and displayed at prominent areas of site and site office. The HSE Officer shall be immediately be notified for any injury at site

Drinking water: Sufficient supply of potable water shall be maintained. Portability of drinking water shall be checked once in a year, specifically in case of change of source.

Toilets: Required number of toilets shall be provided in the office. Separate toilets for ladses and gents shall be

provided.

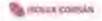
Exits; Each of the premises shall be provided with exits, sufficient to permit the prompt escape of occupants in case of emergency. Exits and the access and egress from exits shall be maintained so that they are unobstructed and are accessible at all times. Exits shall be identified conspicuously. All exits shall discharge directly to an open space that gives safe access to a public way

### HSE TRAINING AWARENESS AND COMPETANCE

For Effective and Safe Execution of all critical, non critical, hazardous jobs the basic competence in the field is absolutely necessary to execute the project in the Safe and Efficient Manner. The necessary job knowledge and competence is necessary to be supported with appropriate behaviors supporting the systems to make it a loss free ргосеяв,

- Aspects / Impacts, Hazards / Risks and the related controls vanous activities:
- Detailed knowledge on Roles, Responsibilities. Job Descriptions with requisites set forth in SOCW Rules. and the Legal Requirements.
- Knowledge of Personal Protective Equipment's and besig safety and Construction practices.
- Training on Emergency preparedness and the roles for mitigation wherever required.





## ISOLUX CORSAN HSE PLAN

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- Health lesues relevant to Occupations and their personal initiatives on prevention of disease and injunes.
- Safe Use of Tools and Electrical Equipment and Systems
- Appropriate training programmes etc. shall be organized for all levels of people working at sile at periodic intervals to improve the safety measures.
- Appropriate posters, slogans etc., in commonly / locally understood (anguages shall be suitably displayed at work locations.
- Safety awareness programme such as poster design competition slogan writing etc., may be sponsored, or special occasions.
- The respective Supervisor of the work force conduct Tool Box Talks on a regular basis to make personnel aware of the hazards of their activities and what precautions are to be taken to avoid any incident.
- Induction training imparted when a new employee join the company.

### PERSONAL PROTECTIVE EQUIPMENT

CORSAN shall issue the required PPE to all workmen employed by the company depending on the job activities they are involved. It will be the responsibility of the respective Supervisor to ensure that the operators working under them are issued with the necessary PPE before they are deployed on site.

#### PROCEDURE FOR BARRICADE, SIGNAGE, TAGS & POSTERS

CORSAN shall ensure barricade of areas during excavation. lift, high pressure hydroatetic and pneumatic testing and other such work areas. Warning signage shall be displayed along the barricaded areas.

All hazardous areas of operations will be identified during work execution and properly barricaded. Necessary warning signs and HSE posters that are prominent and understandable to a layman will be displayed at site to warn about the Hazards at the work area. Excavations deeper than 1.5 meters shall be barricaded. When works are taken up in the live electrical distribution network, appropriate caution boards such as "Do not operate – Men at work", "Danger to Life", will be put up in the main boards and it will be locked for protection. Lock-Out/Tag-Out (LOTO) procedure will be followed striction.

Any edge protection or barricade removed to gain access to the prohibited locations in the course of execution of work will be done only with a written permission from the concerned HSE Officer / HSE Engineer. The removed protection shall be replaced no sooner the work is completed.

Suitable HSE posters and stickers will be arranged and displayed. Emergency telephone numbers will be displayed on all the notice boards. Emergency procedure will be displayed at appropriate places.

### VEHICLE MOVEMENT

Following shall be ensured:-

- Only Licensed drivers shall drive the vehicle.
- Speed limits shall be clearly displayed. Speed limits shall be observed strictly.
- Vehicles shall be parked at the designated parking place.
- No vehicle shall be parked under LT / HT power lines.
- Vehicles shall not block emergency evacuation road, escape path, access road for fire tenders / rescue vehicles etc.
- No worker shall take rest / sleep under any vehicle.

### STORAGE OF FLAMMABLE LIQUID

Flammable liquid at project site may include Diesel, Lubricating Oil, and Construction chemicals etc. The following measures shall be taken:

- Flammable liquid containers shall be stored on concreted floor. Dyke wall around the storage tank / dram shall be provided to prevent loss of containment.
- Electrical connection in the flammable liquid store shall not be provided.
- . In the case of storage in tanks, the capacity of the tank shall be conspicuously marked on the tank:
- Smoking, fire near the storage area shall be prohibited. Caution board to the effect shall be displayed.
- Foam type fire extinguishers and Sand buckets shall be provided near the storage area.
- No receptable containing flammable liquid shall be repaired unless thoroughly cleaned and freed from the liquid.
- Decenting of Namimable liquid from the drums shall be carried out using hand pumps.

#### CONSTRUCTION EQUIPMENT

Acceptance / Inspection of construction equipment prior to deployment at site





# ISOLUX CORSAN HSE PLAN

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Inspection of following construction equipment shall be carried out prior to their deployment at the site by the concerned Engineer / Safety Office.

- Welding machines
- Gas Cutting set
- Cranes / Hydra
- Earth Moving Machinery
- · Lifting tools and tackles
- D G Sets

Concerned Site Engineer & Safety Officer shall inspect the equipment as per the prescribed checklist. Record of checking shall be maintained.

#### SCAFFOLDS AND PLATFORMS

- All scaffolding shall be of sound construction. A competent person must inspect each scaffold.
- · All scaffolding and platforms shall be guarded.
- Personnel who are conversant with and competent to perform this work shall erect scaffolding and platform.
- Scaffolding and platform shall be removed according to construction requirements and When work
  has been completed.
- Where a scaffold / platform is erected in an area where the construction activities may pose hazards to pedestrians or vehicular traffic nearby from the falling of objects, wire nets or screening nets shall be used to envelope such scaffold / platform.

# LADDERS

- All ladders used at the project site shall be of sound construction. Ladders shall be inspected prior to each use, and a quarterly inspection will be conducted by a competent person.
- Ladders with broken or missing rungs, broken or split side rails, or otherwise damaged, shall not be used and shall be removed from the project.
- All portable ladders placed on a stable base. The access areas at the top and bottom of ladders in use shall be kept clear of obstructions.
- The side rails shall extend above the landing. When this is not practical, grab rails shall be installed.
   All ladders in use shall be tied, blocked, or otherwise secured to prevent an accidental displacement.
- Tripod ladders (ladders with three legs) are profibited on the project. All folding ladders shall have four supporting rails or legs.
- Only non-metallic, wooden, approved ladders shall be used during electrical operations where employees may come into contact with electrical circuits or systems.

#### EXCAVATION

- All excavation work shall be planned and the method of excavation and the type of support work required shall be decided, in consultation with Construction Manager, considering the following:
  - Stability of the ground
  - Excavation will not affect adjoining building, structures etc.
  - Presence of underground pipes, cables etc.
- Sites of excavation shall be thoroughly inspected:
  - Daily, prior to each shift and after interruption in work of more than one day
  - After every blasting operation
  - After an unexpected fall of ground
  - After heavy rains
- Safe angle of repose shall be maintained while excavating trenches exceeding 1.5 metres. Slope shall, usually be not less than 45°. Suitable bench of 0.5 metre width shall be provided at every 1.5 metres depth of excavation in all type of soil except for hard rock. In case benching is not possible, proper shoring and strutting shall be provided to prevent cave-in or slides.
- Barricading of 1 metre height (with red and white band) shall be provided for excavations beyond 1.5
  metres depth. Two entries /exits shall be provided for such excavation.
- Excavated earth shall not be places Within 1 meter of the edge of the trench or depth of the brench, whichever is greater.
- Véhicles shall not be allowed to operate too close to the excavated area. At least 2 meters distance shall be maintained from the edge of excavation. No load, plant or equipment shall be placed or moved near the



# ISOLUX CORSAN HSE PLAN

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edge of any excavation where it is likely to cause its collapse and thereby endanger any person unless precautions such as the provision of shoring or pilling are taken to prevent the slides.

During rains, the soil becomes loose. Additional precautions shall be taken to prevent collapse of side wall.

Necessary precautions shall be taken for underground utility lines such as cables, sewers, pipelines etc.
 Position of buried utilities shall be located by referring to plant drawings, if available. Necessary clearances from the concerned authorities shall be obtained before commencement of the excavation job.

- In case of mechanized excavation, precaution shall be taken to not to allow anybody to come within one
  metre of extreme reach of the mechanized excavator. The excavator shall be operated by a well-trained
  experienced operator. While not in operation, the excavator shall be kept on firm ground with excavator
  shovel resting on the ground. Wheels of excavator shall be suitably jammed to prevent any accidental
  movement of the excavator.
- Water shall be pumped out, if any accumulates in the trench. Necessary precautions shall be taken to prevent entry of surface water in trenches.
- In case of excavation in the vicinity of any existing building / structure, approval shall be obtained on the excavation method from Construction Manager;

#### REINFORCEMENT WORK

- Workers carrying out reinforcement work shall use proper personal protective equipment, such as Safety Heimet, Safety Shoe and Gloves.
- Hand shall not be placed below the rods for checking clear distance. Measuring device shall be used for the purpose.
- . Loose clothes shall not be worn while checking the rods.
- To carry out welding / cutting of rods, safety procedures / precautions as mentioned in Section "Cutting is Welding" shall be followed.
- For supplying of rods at height, proper staging and / or bundling shall be provided.
- For short distance carrying of materials on shoulders, suitable pads shall be used.
- While transporting rods by trucks / trailers, the rods shall not protrude in front of or by the sides of driver's cabin. In case such protrusion can't be avoided behind the deck, then it should not extend 1/5<sup>-1</sup> of deck length or 1.5 meters whichever is less and shall be tied with red flags / lights.

#### CONCRETING WORK

- Stability of shuttering work shall be checked before starting concreting work.
- Concreting area shall be barricaded, if pouring at height / depth.
- Vibrator hoses, pumping concrete accessories shall be kept in healthy condition.
- Pipelines in concrete pumping system shall not be attached to temporary structures such as scaffolds and formwork support as the forces and movement may affect their integrity.
- Safety cages / guards around moving motors / parts of concrete mixers shall be in place.
- Concrete mixers shall be provided with hoppers.
- . Concrete mixers shall be inspected for their condition at start of work.
- Concrete mixers shall be maintained well so as not to generate excessive noise.
- Earthing of electrical movers, Vibrators etc shall be done and verified.
- Personal protective equipment such as gloves, safety since and safety helmet shall be used while dealing with concrete, and nose mask shall be used while dealing with cement.
- Cleaning of rotating drums of concrete mixers shall be done from outside, Lockout devices shall be provided where workers need to enter.
- Adequate lighting arrangement shall be ensured for carrying out concrete work during night.
- During pouring, shuttering and its supports shall be continuously watched for defects.

#### WASTE MANAGEMENT

#### Construction Materials

This includes concrete fumps, cement lumps, tested concrete cubes, broken asbestos sheets, soil, rock. Fibre glass, broken bricks etc. These shall be collected from the site and used as land fill or transported to designated dumping site. Paper, Plastics, Rubber and Glass: These shall be collected in the dustrins placed at various points at site / office. These shall be disposed off to the scrap dealer.

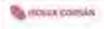
#### Metals

Metal pieces and welding rod stubs etc shall be collected from site and segregated at source. These scrap shall be stored in the scrap yard and disposed off to the scrap dealer.

## Waste Lubricating Oil:

Waste lubricating oils and oil filters shall be stored in closed containers. They shall be disposed off to the authorized recyclers.

## Food Waste:



# ISOLUX CORSAN HSE PLAN

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Food waste shall be collected in food waste containers with lid. They shall be disposed off to municipal collection bins or buried in designated areas for composting.

#### Waste Lead Acid Battery:

They shall be disposed to the authorized dealers of battery manufacturers.

#### Disposal of empty Paint containers:

Residual paint in the paint containers shall be kept at the minimum, by extracting the maximum paint by use of filinner. The empty paint container, thereafter, shall be disposed off suitably, in consultation with the Owner.

#### Electrical waste from site:

Electrical waste shall be stored at identified location and shall be disposed off to scrap dealer.

#### Domestic waste at site:

Domestic waste generated at the site shall be buried in deep pit specifically excavated for the purpose.

#### ACCIDENT / INCIDENT REPORTING, RECORDING & INVESTIGATION

- Near-misses, accidents involving minor injuries, major injuries involving permanent or temporary disablement of full or part of the victim's body, first-aid cases, property damage, dangerous occurrences, ill-health, etc. are all considered incidents.
- Other than the legal requirements, if any to be fulfilled by the representatives of the Administration Department, the HSE Department and others at site shall follow the incident Reporting Flowchart prepared and displayed at all prominent locations at site.
- All impidents / accidents shall be reported immediately in CORSAN\* Preliminary incident Report, incident investigation shall be undertaken at the earliest but not later than two hours from the time of occurrence of the incident by the CORSAN senior personnel and HSE Officer, for establishing the cause and recommending corrective and preventive actions.
- The workforce shall be trained and retrained in reporting near-misses and all incidents. Near-misses so reported shall be recorded and maintained in CORSAN standard format

#### HOUSEKEEPING:

Housekeeping is based on the principle, "Having a place for everything and having each thing in its designated. place. Housekeeping is an important element of accident prevention. It should be the primary concern of all Supervisors and all the end of the job they shall monitor it. CORSAN shall ensure that a high degree of housekeeping is maintained and shall ensure the following:

- All debris is removed/disposed off from the working areas to designated location(s) as shown by the client.
- Unused/surplus cables, steel items and steel scrap lying scattered at different places within the working press are collected and stacked at location(s) earmarked for scrap yard
- All wooden scrap, empty wooden cable drums and other combustible packing materials, shall be removed from work place to identified location(s).
- Roads shall be kept clear and materials like pipes, steel, cables, etc., shall be removed from the occasses to avoid obstruction to free movement of men and machiner
- Fabricated steel structural, pipes & piping materials shall be stacked properly for erection.
- Water fogging on roads shall be rectified immediately on notice.
  All trucks/trolleys, cranes and trailers, etc., shall be parked only in the designated areas and parking shall not. be allowed on roads, which may obstruct the traffic movement.
- Almost care shall be taken to ensure over all cleanliness and proper upkeep of the working areas.
- Trucks carrying materials that might have dust flowing from them shall be covered while moving within the premises of these materials shall be transported with top surface wet. CORSAN shall ensure that the atmosphere in premises and on roads is free from particulate matter like dust.
- sand, etc. by keeping the top surface wet for ease in breathing
- Every unit area shall have two exits at all times to ensure proper emergency evacuation
- Proper access and agress shall be maintained at all times at site and it shall not be blocked.
- Trash containers shall be kept near the rest shed and at various locations across the site. The personnel shall
- be disposing off the segregated trash in the designated trash bins only.

  Scrap generated at site shall be removed on a day-fo-day basis by the designated personnel at the end of the shift every day
- Power cables, shall be laid in such a way that it does not cause trip hazard and where it is liable to get damaged.

#### TOOLBOX TALKS (TBT)

CORSAN shall conduct daily TBT with workers prior to start of work at each shift and shall maintain proper redard of the meeting. The TBT is to be conducted by the immediate supervisor of the

# RECORDS OF TRAININGS CONDUCTED DURING REPORTING PERIOD

HSE training, mock drill have been conducted for the drainage package. All workers are participated in the training program.

Use of PPE by worker during construction and how to tackle emergency situation has been discussed. Also HIV/ AIDS awareness training has been conducted for workers.

# ATTENDANCE SHEET

Name of the meeting: HSE Training

Venue : DTP DRAIN PROJECT

Date : 06/01/2017

Time : 11:30

Project Name

Topic : Awareness training on HIV/AIDS

SI.No.	Name of the Person	Designation	Company	Signature
01.	Annt			Another Bayan
02.	Kanakhya			JOIH 1275
03.	Balasan Gouda	E.O.T. Operator	KK Spun	Balarism
04.	Thisamingan		K. K. Span	Thisumure
05	Dinesh Pathak			दिनेश कुमार प
06.	Bipin			BIPIN KUMAR
07	Money Chetia			Son Money Chefia
08	Lakhiran			Labhiran
09.	Sureth Urang			Swesh liberry
10	Shyan			Byan Morah
li.	Babul			Jobel Lurah
(2	Han'			Hori Kheruan
13.	Ramvilach			RAM BILA
14.	Deepak			Deedal
15.	Arun			Arum Patra
16.	Raja			Raja Borg chain
17.	Dibya			Orbya Gro
18.	Jaiprakash			म् प्रभाश है
19.	Triloukya			Follows San
20.	Pouphull gouda	B.P. Helper		Porplul youle
21	Bamleshuar Mishra	B.P.O.P		Bushing

# On site Health Training Photo



Activity: Health camp for workers

Month: May

Place: Plant Area ,Lepetkata



Activity: Health camp for workers

Month: June

Place: Plant Area ,Lepetkata



Activity: Spreading of bleaching powder at site where de siltation work is going on.

Month:April

Place: ch. 100Mtr



Activity: Training programme

Month: March 2017

Place: Plant Area ,Lepetkata

### SCANNED COPY OF CONTRACTOR'S INSURANCE FOR WORKERS



# THE NEW INDIA ASSURANCE CO. LTD. (Wholly owned by the Govt. of India)



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Section I	- Thera Porty Lie	pility!						
St. No.	Limit of Indom	nity in respec	1 of any one accident or- ng out of one event	Total	Total limit of Section II during policy period		Any One Person	
-1		100000			-	000000	100000000	
Fyrnatas	for Suction I are	111.						
St. No.	1. For Sto Construction	vage &	2. For Muntenance per	nod :	3. For Me	for parti claims as no 8 of Section !	Terrorism Claims	
1	5% of Claim An 12 Minimum o each C	10000G	5% of Claim Amount sur to Minimum of 4000 such claim	olisct 5 OO	to Miran		0.5 % of Ideal Sum Insular subject to manufacture of 1,00,000/- for each and away class	
Excesses	For Specific Add	On Covers :						
St. No.		Descri	ption Of Coyet			Excets		
		Terrorism	Covered			Torre	rism Promium	
		YE:	8			343	0630.1755	
Doductio	was Opted for Te	rtorism	5% of the plaim amoun and Missimum of 2.50.	of,000	acri and	every claim subjec	2 to Minimum of 1,00,000	
		Risk Sor	rial No.			Earti	Outike Cover	
		1	may report			1.00	YES	
		Dick Sor	sat Ne				STF1 Cower	
	Risk Serial No.					VF5		
			Installma	est Division	alle:			
Installe	Installment Number Installment Date on or before				installment Amount (")			
					Pramium		Service Tax	
	1.	-	14/07/2015		1626047		227646	
	2		14/07/2015		889	8178	123497	
	3		22/08/2015		29	461	40805	
	M .		22/11/2015		291	461	40805	
	5		22/02/2016		29	461	40005	
	-		and had company		-	1150	A married for	

	ENDORSEMENTS	ATTACHED TO & FORMING PART OF THE POLICY
St. No.	Endorsament Number	Endorsement Title
0	ABC	Agresa Bank Clause
1	CAR 001	Pipoline Construction
2	CAR 002	Excusion of Loss of Statessing Float
3	CAR 003	Road-Construction
4	CAR 004	Pling Construction
5	CAR 005	Abandonment of Shafts
6	CAR 006	Crops, Forests, Cultivated Areas
7	CAR 601	Existing underground cables
-8	CAR DOIL	Contract works time schedule
9	CAR 809	Temporary access Reads
10	CAR 010	Special conditions concerning the construction of Dem and Water Reservation
17.	CAROTT	Special conditions concerning safety invasives with respect to Precipitation. Flood and Inundation

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22/05/2016

22/08/2016

72/11/2016

Policy No.: 5000004416030000000T Document generated by 33371 at 21/07/2015 18:05:65 Hours.

Regd. & Read Office: New India Assurance Bidg., E7 M.G. Road, Fort, Mumbal +400 001, TOLL FREE No. 1 900 209 1415.

Page No. 2

# THE NEW INDIA ASSURANCE CO. LTD. (Wholly owned by the Govt. of India)



12	CAROU	Breekiggs of glass
1.3	ENG 004	Escasation
1.4	ENG.005	Air Freight
35	ENG 007	Additional Customs Duty
15.	ENG 001	Chinsurance
17	ENG 011	Dissistion of entringwike (Fire & Shock) Pents in EQ ZONE ( & It
10	PR 001	Cross Liability
19	PR 002	Limited Maintenance Visits Coyer
20	PR 003	Extended Maintenance Cover
21	PR 005	Installment Facility
22	PR 007	Expenses related of Freight, Insurance, Customs Duty
- 23 -	PR OCD	Excussion of transit losses
24	PR 009	Refund for early completion
25.	P9 010	Deletion of Maintenance cover
26	PR 011	Extension of policy period
23	PR 012	Change in commencement date
20.	F9L013	Mid-turm Inchase in SI
20	PH 014	Cancellation of policy
30	PR 015	Professional Foes
37	1R 001	Cover Extra charges-OT.Night. Work, Work, Public Holidays, Exp Fright Incl. A Fright.
32	LR 002	Special conditions concurring Fire Fighting Facilities
33	LR 000 RJ	72 Noves Clause
34	LR 004	Professional Form Clauser
35	LR 005	Clearance & Removal of Debrios Clause
30	18.006	50 50 Clause
37	LR 007	Cover for Increased Customs Duty
38	LR 008	Loss minimisation expenses
39	TB 000	Owners Surrounding Property
40	LR old	Automatic Reinstatement
41	136 017	Cover for Cross Liability
42	LELOTZ	Waiver of Subregition
43	LR 013	Cover for minufacturers risk.
44	18.014	Extended disantenance cover
45	18/015	Cover for valuable documents
46	LH one	Cover for Offsite Storage
47	19017	Walver of Contribution
48	LR 018	Continuity of cover
	ENG 002	Extension of terrorism damage
	SLIC	Section Limitation and Evolusion Disuse

In witness whereof the undersigned being duly authorised by the insurers and on behalf of the insurers has (heve) hereunder set his (their) hand(s) on this 21st day of July, 2015.

> For and on behalf of The New India Assurance Company Limited

> > Duly Constituted Attorney(s).

# ACCIDENT AND FIRST AID RECORD

Not submitted by DSC

# **SUMMARY OF LABORERS for the PACKAGE**

# Name Of The Project:- Construction of DTP Drain, Box Culverts and Allied works in Dibrugarh from Ch. 0 to 9500Mtr

# **Manpower Deployed During JANUARY -2017 to JUNE-2017**

Month	Local Em	ployee	Outside	Total for the month
			Employee	
	WOMEN	MEN	MEN	
JANUARY	NIL	25	10	35
FEBRUARY	NIL	22	12	34
MARCH	NIL	22	10	32
APRIL	NIL	NIL	NIL	
MAY	NIL	NIL	NIL	
JUNE	NIL	NIL	NIL	
JULY	NIL	NIL	NIL	
Average				103 nos.

# Public consultation sample copy - At working location

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Property dang Posthydani

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Jugatania

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W.S.A.P.O 88

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Remarks contractor-

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Property done

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Proposity disc

Black John . Richer

Patral Kerman Pargial egopei

Falu & dismuser Purgoi Public Consultation During Construction-Construction Site CH.

w a. NH 642 8 Area - ch o (Pullon Bazas). Package -Road/ 21-04/10/20 25 0 2047 440c 10 SB 8500 30ct 22 04 3413 Date Remarks case affected). Restoration (in PHE Connection, W/A N N/N Overburden Remarks sall removal-W/A NIA NA N/A - Remarks Road Restoration S NA noise problem-Remarks Dust and

etc.by

activity-

tape/barricade Caution

due to project

faced If Other

address person with Name of the

problem

Signature

arrangement Social safety

Problem of

Verified by Construction Supervision/Environmental Spl.DSC

(Date & Signature) Inspector of Works

DSC, AUIIP, Dibrugarh

Mamash Thakuria

Public Consultation During Construction-Construction Site CH.

Arpa- ch-Shym/ stuck Nosal

o	Un	4	ω	2	11	. S &	MICE
						Road/ Lane No.	5
08.06.17	08.06.17	09.06.17	08.06.17	41.30.80	F1.43.39	Date	Wico - Con Will
AIN	٨/٧	7/4	4/2	N/N	NA	PHE Connection, Restoration-(in case affected), Remarks	( )
N/A	NA	NIA	N/A	2/2	2()	Overburden soil removal- Remarks	,
NA	NA	N AA	N/V	N/A	NA	Road Restoration - Remarks	
ζ.	2	7.	2	2	2	Dust and noise problem- Remarks	
Repeally don	fragerly done	Pochery den	Particulation	Property down	bapant dons	Social safety arrangement- Caution tape/barricade etc.by contractor- Remarks	
Z	2	No	20	20	Z	Problem of local movements due to project activity-Remarks	
Z	Z	Zo	Z	Z	Ž	Other problem faced If any	
Bidyer Te ra	Salakhan	Partial and	About Brite	John Sharas	Farrey your Booker's	Name of the person with address	
Ber	Short Khay	Real	th	Samo	Bonkaj Lega	Signature	

Verified by Construction Supervision/Environmental Spl.DSC

Planask Rakunia (Date & Signature) Inspector of Works DSC, AUIIP, Dibrugarh

Public Consultation During Construction-Construction Site CH.

Package -

Area - ch - 85004 (Hathkola Konnen Gasa).

Signa

2 1 · No SI	Road/ Lane No.	Date Date 17.03 17	SI. Road/ Date PHE Connection, No. Lane Restoration-(in case affected). Remarks  1 87.03   T N/A	Soi Re	Road Restoration - Remarks	arks arks	Dus nois pro Ren	Dust and Social sate noise problem-Remarks tape/bar etc.by contracte Remarks	Dust and Social safety Pronoise arrangement problem-Caution mo Remarks tape/barricade dusers.by contractor-Remarks  No Proposition Pronoise dusers.by act contractor-Remarks	Dust and Social safety noise arrangement-problem-Caution tape/barricade etc.by contractor-Remarks  No Page Appendix
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		17.05.17	NA	ZA		NA	N/A No	No property de	No property de	No Preparty dam
0		41.65元	Ζ,	2/7	-	ZA		ZO ZO	2000	2

Verified by Construction Supervision/Environmental Spl.DSC

(Date & Signature)
Inspector of Works DSC, AUIIP, Dibrugarh

# INFORMATION AND NOTICE DISTRIBUTION TO THE NEAR BY RESIDENCIES

SL.NO	NAME	ADDRESS WITH PHONE NUMBER	SIGNATURE	REMARKS
01	Banck	Nation Pres, AzogAti Rond, DIORUGARH m- 9954278541	De	na.mmax
02	5-5-There-	Masse- 92-04163024	Duzas	-
03	L P. Yada	14352-04667	also	
04	Suff se	940/214989	com.	
05	Rotigal	9005040229	Lavels.	
06	Ructan	7896494582	Rhelati	1
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08	N.c. pad	8/15964900	Rubinay	
09	Namitha	-do- 8486979016	Namisa H	
10	Gogai		Si	
11	AKGan	9706163169	027-L	
12	Stesmita	8482471723	Swaita.	
13	S. K. Rehman	-d 8812072443	SANKAMA	
14	Abdel	8011321530	J-Begin	
15				
16				

PREPARED BY
NARESH KUMAR SAMAL
SR.HSE OFFICER

REVIEWED BY
SUDIPTA SARKAR
PLANNING ENGINEER

BANJIT DAS
PROJECT MANAGER

## SUGGESTED COMPLAINT REGISTER AND COMPLAINT FORM

The **Assam Urban Infrastructure Investment Program (AUIIP)** welcomes complaints, suggestions, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing \*(CONFIDENTIAL)\* above your name. Thank you.

Place of registration

Contact Information	/Personal Details				
Name		Gender	Male Female	Age	
Home Address					
Village / Town					
District					
Phone no.					
E-mail					
grievance below:	ion/Comment/Question Please	•	o, what, where a	and how) of	your
How do you want us	s to reach you for feedback or u	odate on your comment/g	rievance?		
FOR OFFICIAL US Registered by: (Nar	E ONLY ne of official registering grievan	ce)			
If – then mode:					
Note/Letter					
E-mail					
■ Verbal/Tele					
Reviewed by: (Nam	es/Positions of Official(s) review	ring grievance)			
Action Taken:					
Whether Action Tak	en Disclosed:	Yes			

## **GRIVENCES RECORD AND ACTION TAKEN**

Means of Disclosure:

Date

Sr. No.	Date	Name and Contact No. of Complainer	Type of Complain	Place	Status of Redress	Remarks

No