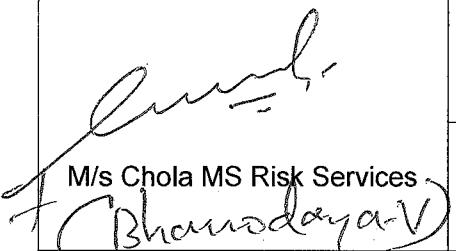
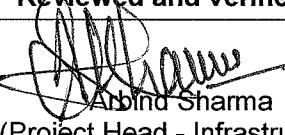
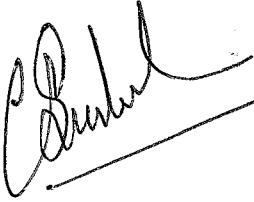
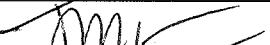
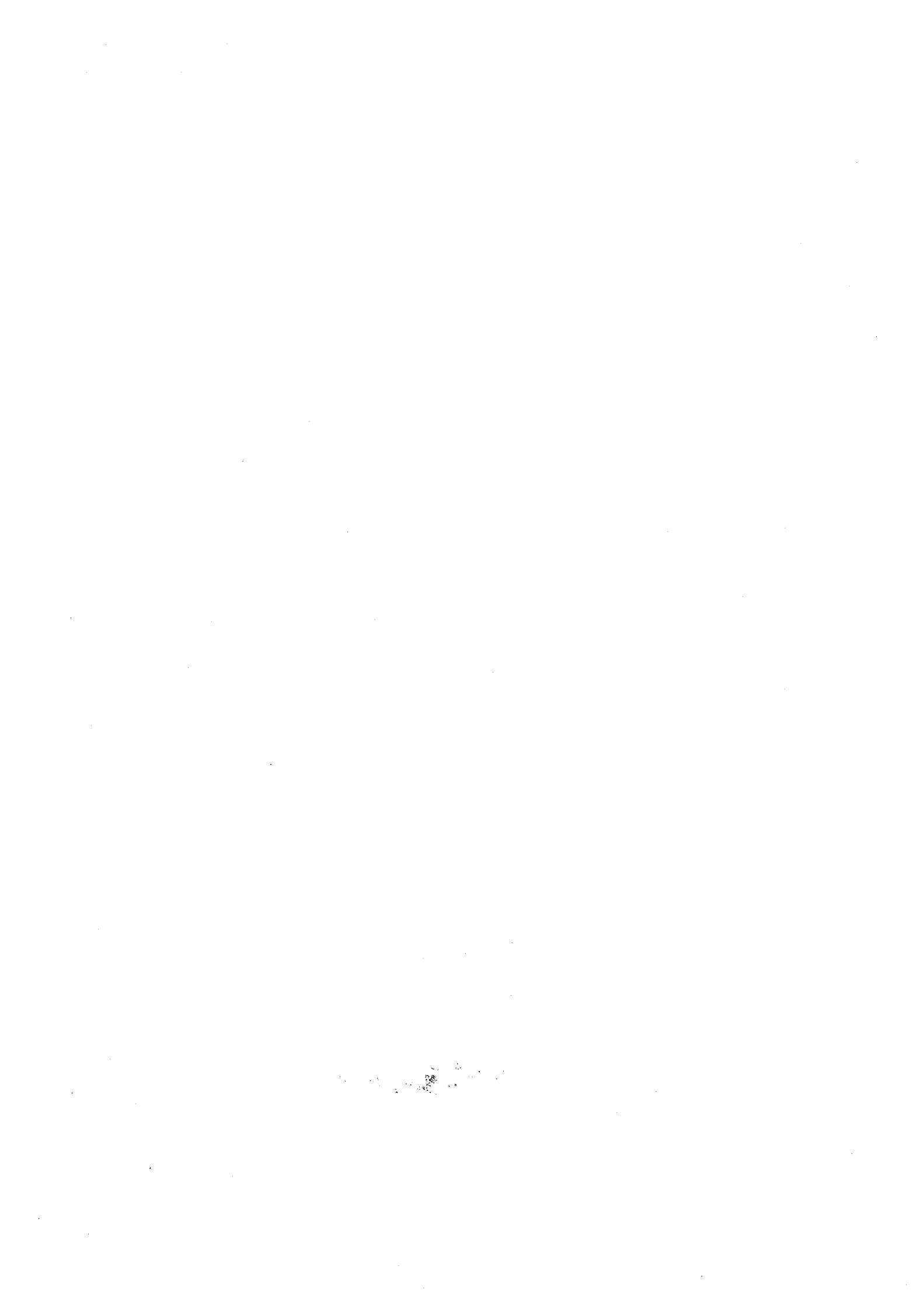


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STANDARD OPERATING PROCEDURE (SOP)

NIGHT WORK SAFETY

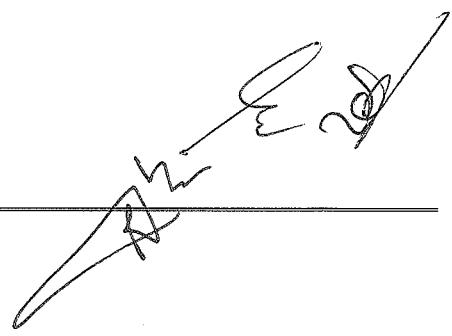
Prepared by	Reviewed and verified by	Authorized by
 M/s Chola MS Risk Services <i>CBhavadasayav</i>	 Arbind Sharma (Project Head - Infrastructure)	
	 Jose Numpeli (Project Head - Downstream)	
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Document Change Note

Rev. No	Rev. Date	Comments / Changes
00	26-12-2022	First issue

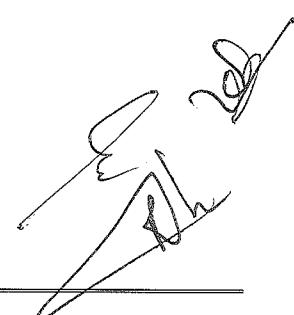


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1 PURPOSE

The purpose of this Standard Operating Procedure is to detail measures that reduce the Safety and Health risks associated with night work activities and to prevent any accident happen to those workers who work at site during night.

2 SCOPE

This procedure shall apply to all AMNS project sites and related work areas including contractors to meet –

- Legal and regulatory requirements
- AMNS HSE requirements
- ISO 45001 and ISO 14001 standard requirements

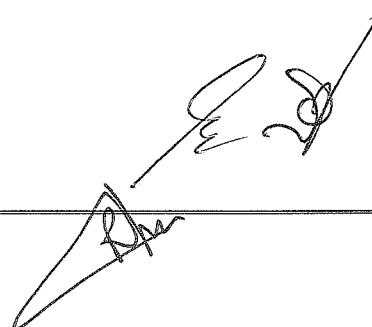
3 DEFINITIONS

Night Work:

A work performed after 18:00 hours and before 06:00 hours the next day (after sunset and before sunrise of the next day).

4 RESPONSIBILITIES

The Project Head is responsible for ensuring compliance with the requirements those stipulated in this procedure.



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5 NIGHT WORK – SAFETY ASSURANCE PROGRAMME

5.1. HAZARDS

Vehicles and Heavy Equipment Movement

- impaired or drowsy drivers
- reduced visibility for motorists
- Brightly lit work zones cause glare and shadows for drivers

Work Environmental Hazards like uneven surface / tools or materials left around the worksite

Weather Conditions - diminishing of mortar sensitivity and response ability due to chillness and it can create additional hazards like slippery surfaces and wet clothes.

Worker Performance - Trouble adjusting to working at night and the disruption in the body's circadian rhythms that it creates-

- Fatigue
- Reduced visibility
- Brightly lit work zones cause glare and shadows for workers
- Increases in trip and fall injuries
- Decreased reaction times for construction workers
- Emergencies at night is harder to respond

5.2. PROCEDURE

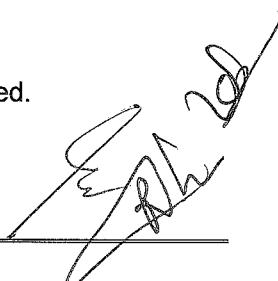
It is important to be well prepared for night work. Following are night work safety precautions:

Work planning:

Critical activities like mechanical lifting and work at height shall not be planned or to the possible extent avoided during night hours. In case if it's not avoidable, then special precautions has to be implemented through Permit to Work System, before such critical works can be started.

The following should be considered prior to start of work:

- Personnel and assigned tasks.
- Project location/area and facilities or lack of facilities in the area.
- Task equipment, inventory and inspection.
- Routes of travel, transportation of people and equipment.
- Anticipated hazards/emergencies; for example illness, injury, adverse weather
- Weather Forecast
- Health of personnel.
- Disposal of waste material.
- Special equipment needs and level of training of personnel involved.
- Re-inspection of equipment and tools as necessary.



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Communication:

- Supervisor to be immediately notified when a worker is not seen for prolonged time.
- Workers involved in night operations must check in with a designated supervisor at the completion of operations.
- Frequent visits shall be made by AMNS site engineer, to ensure that regular communication is established and to ensure that no worker is sleeping or taking rest at site (in dark areas).

Equipment:

The following equipment are required in the field:

- First-aid kit and manual
- Flashlight
- Rain gear (during rainy season)
- Fire extinguisher

Site / work Conditions:

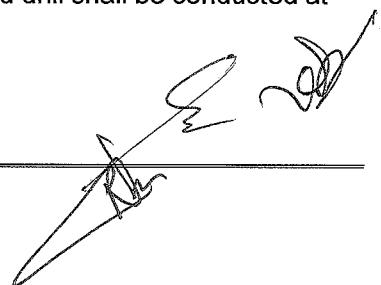
- Sufficient illumination shall be provided. The illumination level shall be measured and recorded each night, at all working places.
- Reliable check on expected weather shall be done. All workmen shall get a briefing about activity, equipment, limitations, and known or potential hazards.
- Workers shall always work in pairs and communication will be maintained at all times. Staff should stay within visual range of each other (i.e. able to see each others).

Operations – Do's & Don'ts:

- Check shall be done on potential hazards at work site – biological such as snakes, physical such as excavations, overhead lines before start work.
- Workers shall not go at places where it is dark or not clearly visible.
- Disposal of waste shall be done at the designated waste collection area.
- No worker shall travel or work alone in isolated areas.
- While removing a material from storage, tap the metals and check for the presence of any reptiles.
- Ensure the wash rooms are and the path leading to wash room is well lit.
- Periodic rest breaks to be provided for work involving repetitive work.
- Illumination to be provided such that it doesn't create glare or shadow areas.

Emergency Preparedness Plan

- The response for the emergency can be different at night. The emergency preparedness plan shall be informed to all night workers and drill shall be conducted at periodic intervals.



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Personal Protective Equipment

Along with safety shoe and safety helmet, High visibility coverall with reflective strip is mandatory for all workers involved in the night work. Warm clothing to be provided to workmen in cold weather conditions.

6 CHECKING, CORRECTIVE AND PREVENTIVE ACTION

Periodic audits shall be carried out to assess the compliance to the procedure and effectiveness of the controls. Any deviations shall be reported to Project Head & corrective and preventive action shall be taken.

7 RECORDS

S. No.	Record Name	Maintained by	Retention period
01	Periodic Audit reports on PTW	HSE Department	Till completion of project
02	Risk assessment register	HSE Department	Till completion of project
03	Illumination checklist	HSE Department	Till completion of project

8 REFERENCE DOCUMENTS

Format No.	Standard Name
AMNS/Project/SS/HSEM/12	Emergency Response
AMNS/Project/SS/HSEM/08	Hazard Identification, Risk Assessment & Control
AMNS/Project/SS/HSEM/10	Permit to work Procedure

9 ANNEXURES

AMNS/Project/TS/HSEM/06/F18 – Illumination lux level checklist

