



Date: June 30, 2024

TO WHOM IT MAY CONCERN

We, **M/S J B NERLIKAR & ASSOCIATES**, located at **C5/4 ABOLI BUILDING HDFC COLONY, 'G' BLOCK M.I.D.C. SHAHUNAGAR CHINCHWAD PUNE**, hereby declare our commitment to implementing Hazard Identification and Risk Assessment (HIRA) studies as a part of our future work practices, specifically focusing on our **Civil Construction repair & maintenance projects**.

Declaration of Future HIRA Implementation

As a company committed to maintaining the highest standards of health and safety, **M/S J B NERLIKAR & ASSOCIATES** acknowledges the importance of conducting comprehensive HIRA studies. While we have not conducted HIRA studies in the past, we are dedicated to incorporating this critical practice into our future operations to ensure a safe working environment for all employees, contractors, and stakeholders.

1. Purpose of Future HIRA Implementation:

To systematically identify potential hazards associated with construction work.

To assess the risks and determine appropriate control measures to mitigate these risks.

To enhance the safety and health standards within our workplace.

2. Scope of HIRA Study:

The HIRA study will cover all aspects of Construction repair & maintenance, including **Excavation, Formwork, Reinforcement work, Concreting, Brickwork, Plastering, and Painting, Roofing** processes.

It will include the assessment of risks related to chemical exposure, slips and trips, manual handling, and equipment use.

3. Planned HIRA Process:

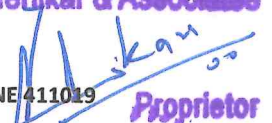
Hazard Identification: We will systematically identify all potential hazards associated with **Construction repair & maintenance** tasks.

Risk Assessment: We will evaluate the identified hazards to determine the severity and likelihood of potential risks.

Control Measures: We will develop and implement control measures to mitigate identified risks, including engineering controls, administrative controls, and personal protective equipment (PPE).

Review and Monitoring: We will continuously monitor and periodically review the HIRA study to ensure its effectiveness and make necessary adjustments based on feedback and changing conditions.

For J B Nerlikar & Associates


Proprietor

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4. Key Control Measures to be Implemented:

Excavation:

1. Barricading the work area.
2. Engaging the competent operators.
3. Taking approval from relevant authorities and ensure PTW.
4. Imparting the HIRA talks before start of work.
5. Avoiding the manual material handling as much as possible and introducing mechanical material handling for the removal of surface encumbrances.

Bar Bending & Cutting:

Stacking of material 1. Stack the reinforcement rod on the base of the concrete sleeper / concrete blocks & not on the ground directly.

2. Material should not be stacked more than 3 layers of bundle.
3. All the bars should be tied - minimum at 3 places & especially at the end so that they are not open.
4. Reinforcement should be laid in such a manner that it does not block the passage.
5. Soft barricading should be provided around the Area
6. Gap should be provided for easy lifting / inspection of the material.
7. All the personnel should wear appropriate PPE

Loading of material - 1. Only trained rigger / operators are to be performed the loading / unloading operation.

2. Carefully select the type of equipment to carry out loading / unloading activity.
3. Note the weight of the reinforcement bundle before lifting.
4. Use of Chain sling / wire sling to lift the load.
5. The sling should be calibrated & inspected before use.
6. While placing the sling carefully lift first at the end & then tie the sling then lift at the other end.
7. If for some reason the load is to be lifted through centre then repeat above steps & then insert the sling in the middle.
8. Never place the sling directly on the packaged tie up of reinforcement rod
9. Check the stability & firmness of the ground where the crane / TRX is to be placed
10. Operator should first inspect the place of lifting, material to be lifted & path from where the material to be shifted to be placed on the trailer.
11. First lift the load less than 4 to 6 inches from the ground level & check the CG & its stability, wait for few minutes.
12. Then again lift the load @ 1 Feet above ground

Scaffolding:

Mobilization, Handling (loading / unloading) & stacking of scaffold material.

1. Do not lift the materials with bundle ties and to be unloaded with suitable lifting equipment's.
2. Quality of scaffolding material shall be checked by the competent person as per the requirement.
3. Scaffolding materials should be stacked instable manner and less than shoulder height. It must be

Barricaded.

4. Tag line must be used while loading & unloading of scaffold materials.
5. Experienced rigger must be engaged at the time of loading & unloading.
6. Sleepers must be placed underneath the scaffold materials.
7. Side support must be provided at stacking of materials.

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Erection of scaffolding- 1. Scaffolding should be erected as per the drawing/scheme.

2. Before installation of scaffolding soil condition must be checked and verified.
3. Ground soil must be compacted.
4. Scaffolding shall be installed and modified under the competent supervision with competent scaffolds only as per scaffolding procedure
5. After installation scaffolding tag system is being followed.
6. Scaffolding shall not be used without authorization of scaffolding inspector/supervisor.

Working on scaffolding at height- 1. Scaffolders must undergo for medical test and vertigo test.

2. PTW system must be followed.
3. Activity shall be carried out by competent scaffolders
4. Shall be used full body harness with scaffolding hook and double lanyard harness and other basic PPEs.
5. All tools shall be carried in a tool bag or with adequate arrangement means hand tools must be tied with tag line.
6. Surrounding must be barricaded.
7. Weather condition and speed of wind shall be taken in consideration before working at height on scaffold.
8. HIRA Talk is compulsory before start of activity.
9. Maintain tag system for scaffold while working on the scaffold

Scaffold dismantling- 1. Scaffolding dismantling shall be carried out under supervision of competent scaffolders.

2. Scaffold tag system shall be strictly followed.
3. Dismantling activity must be done sequentially
4. Dismantling scaffold material shall not be (From top to bottom) thrown from height.
5. If possible life line must be provided at the time of dismantling.
6. PTW system must be followed up.
7. Materials must be stacked properly.
8. Dismantling of scaffold shall be done only after arrangement of barricades & signage.

Formwork

Manual material handling of formwork components - 1. Formwork shall be supervised by a competent person

2. Workers should follow proper manual handling methods.
3. Assess the load by considering the parameters like load, environment, and physical condition of workmen.
4. Small loose items shall be lifted and handled in the suitable containers and cages to prevent falling objects.
5. Proper stacking methods and housekeeping shall be followed at work platform
6. Fall prevention requirements like toe boards and catch nets shall be fixed.

Formwork fixing - 1. Adequate ties to be given and sufficient supports to be provided as per design


2. Catch nets shall be provided to control the falling objects.

Formwork removal - 1. De shuttering of formwork shall be carried out under the supervision of competent supervisor.

2. Concrete slurry, plumb stones, tie rods, tiepins, shall be removed before lifting the form work.
3. Catch nets shall be provided to control the falling objects.
4. Life line to be provided while working at height.

Work at height - 1. Proper work platform shall be provided.

2. Ladders shall be provided for access and egress.
3. Proper inspection shall be carried out by scaffolding inspector.
4. Full body harness is a must.

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CONCRETING-

1. Wear respirators or cover mouth and nose with wet cloth.
2. Use gloves and appropriate PPE.
3. Use Safety shoes; Provide platform above reinforcement for movement of workers.
4. Ensure earthing of equipment's and proper functioning of electrical circuit before commencement of work.
5. Use hard hats; Remove surplus material immediately from work place.
6. Insist on shift pattern; Ensure lighting arrangements during night hours.
7. Allow only mixers with hopper, Provide safety cages around moving motors; ensure proper mechanical locking of vibrator.

MOVEMENT OF EQUIPMENT & MACHINERIES

Unloading of Soil - After ensuring the Pin and proper opening of back door the bucket should be lifted for unloading the materials

Tipper movement without repositioning of back bucket -1. Trained operator only allowed to move the vehicle inside the plant.

2. Install goal post where ever OHE crossing are there.

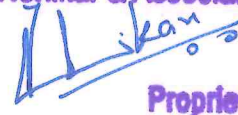
Use of mobile crane for material lifting and marching - Provide wheel guard for mobile crane avoid personal fall under the mobile crane wheel, over dimension or over load materials should not be lifted.

PORTABLE ELECTRIC POWER TOOLS AND ELECTRICAL EQUIPMENT

Use portable electric power tools and electrical equipment - 1. All tools shall be fitted with adequate fuse protect

2. Close supervision is required.
3. To ensure the PTW system compliance.
4. To implement safety checklist before commencing of work.
5. Monthly tagging system to be followed.
6. All tools shall be class 2 double insulated Or have reinforced insulation throughout
7. Connection of electrical tools to be routed through ELCB
8. Only trained and experienced person are allowed
9. Tools shall be inspected on monthly basis.
10. Disc/wheel/tool kit are changed after disconnected
11. Face shield/goggle shall be worn while working
12. All equipment will be routed through 30 mA ELCB

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WORKING AT HEIGHT

1. PTW should take prior to erection work.
2. Ensure close supervision
3. Dynamic HIRA/ pre-task HIRA prepare before commencing of work by a CFT team.
4. To ensure fulfil of pre task checklist.
5. Height pass shall be implemented,
6. Work shall be carried out under direct supervision of TPL
7. No obstruction should be made in the passage at height,
8. No person shall work under the suspension load,
9. All height works shall be carried out in presence of supervisor and Safety Nets shall be fastened where ever it is required.
10. No loose materials shall be placed at edge.
11. Proper housekeeping to be ensured.
12. Multi-layer protection system to be in place.

WELDING, GAS CUTTING & GRINDING

- WELDING** :- 1. Adopting administrative control measures like work permits, method statements, work procedures, imparting training, deployment of qualified welders.
2. Taking fire protection measures such as placing adequate fire extinguishers, water buckets, sand buckets and fire blankets.
 3. Barricading the area with signage, appointing well trained fire watch & keeping the area wet before starting the work if required.
 4. Housekeeping and removal of combustible materials before starting the work.
 5. Execution of welding at fabrication yards as much as possible.
 6. Avoiding fabrication at workplaces.
 7. Using PPEs like leather gloves, safety shoes and aprons.
 8. Ensure PTW system.
 9. Provision of double earth conductors & RCCBs to avoid electric shock
 10. Pre-inspection of machines, cables by a qualified electrician.
 12. Providing appropriate PPE.
 13. Giving proper training using the proper eye protection methods like welding shield,
 14. Barricading the area as much as possible.
 15. Providing UV filter safety glass for all workers.
 16. Providing proper signage.

- Gas Cutting** :- 1. Using gas cylinder trolleys.
2. Shifting gas cylinders with mechanical aids
 3. Storage of DA/Oxygen cylinders separately in upright position.
 4. Using appropriate PPE while handling the gas cylinders.
 5. Ensuring demarcation and signage as per the standard.
 6. Securing the gas cylinders to avoid fall of cylinders.

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7. Using standard NRVs on the cylinder side.
8. Flash back arresters are providing on the cutting torch.
9. Ensuring the deployment of skilled personnel for gas cutting.
10. Adequate fire extinguishers are ensuring before start of work.
11. Providing barricades and maintains good housekeeping.
12. Soap test to be done on both end connection of the hose.

- Grinding -:**
1. Provision of double earth conductors & RCCBs to avoid electric shock.
 2. Pre-inspection of machines, cables by a qualified electrician.
 3. Deploying competent /skill personnel on job.
 4. Selection, usage and maintenance of flying wheels as per the OCP-Grinding
 5. Checking the quality, RPM capacity of grinding wheel before issuing from store.
 6. Performing ring tests for the grinding wheels and ensuring its standard.

ROAD WORK-WIDENING PROJECT (FLEXIBLE PAVEMENT / BC PAVEMENT)

Removal / cleaning of encumbrances- *Refer "Excavation" HIRA

Surface levelling (general cutting/ filling) *Refer "Excavation" HIRA

- Loading / Unloading of soil** - 1. Trained personnel only to be deployed for loading & unloading activity
2. Signal man to be present at the loading / unloading site
 3. No personnel should come in the approach / radius of the JCB Bucket while loading sand in the truck.
 4. No personnel should be standing in the truck when the loading activity is in process.
 5. Signal man should communicate once the loading has been completed in the truck & he should simultaneously inform the truck driver & JCB operator.
 6. Only after the instruction he should start the truck.
 7. Do not overload the truck, as there would be every possibility of skidding while travelling on the ramp.
 8. When loaded truck is travelling then no other truck / machine / personnel should be approaching through the ramp.

Laying & compaction of GSB layer 1. Provide nose mask to workmen while working near to dust emission areas.

2. All personnel must wear high visibility clothing.
3. Engage competent operators and flagmen to control the traffic. Ensure fitness for vehicle and display the inspection tags.

Laying of DBM / BC & compaction of Layer - Use appropriate clothing and hand gloves
Ensure availability of drinking water all the time near to the work location.

Spray of Tar - 1. Correct PPE in accordance with PPE procedure including sun hat, long sleeved shirt & sunscreen

2. Provide cool water on site and drink regularly.
3. All personnel on site to wear approved high visibility clothing. For night works and Vic Roads Works approved reflective vests must be worn.

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- ROOF WORKS** - 1. Work to be carried out under the supervision of TPL.
2. Work permit system to be implemented.
 3. Valid Height pass personnel shall be engaged.
 4. Usage of retractable fall arrestors.
 5. Multilayer of protection system to be used.
 6. Securely roof sheets shall be stored to avoid flying in wind season. Site safety norms shall be followed.
 7. All manual lifting items should be tied with double PP rope and after providing/securing with bolt or weld only rope should be unwanted.
 8. All roof sheets to be secured rigidly,
 9. While lifting the sheet good condition rope with proper clamp arrangement to be made.

CONFINED SPACE-

Working in Confined Space

Proper access to be provided using ladder/tripod stand. Ensure emergency access and rescue plan before entry.

Frequent gas testing. No ignition source,

Fluorescent bulb to be provided for adequate lighting

Maintain uninterrupted contact with the workers by the standby man.

Keep only minimum no of persons for work to avoid congestion

Provide access to shade at intervals. Provide adequate cold water. Ensure adequate ventilation.

5. Documentation and Record Keeping:

We will maintain detailed records of the HIRA study, including hazard identification, risk assessments, control measures, and review findings.

We will document any incidents, near misses, and feedback from employees to enhance the HIRA process.

6. Employee Involvement:

Employees and contractors will be actively involved in the HIRA process through training, feedback sessions, and participation in safety meetings.

Regular safety training and awareness programs will be conducted to ensure all personnel are knowledgeable about the hazards and risks associated with Construction repair & maintenance work.

Implementation Plan:

Initial Training: Conduct initial training sessions for all employees on the importance and process of HIRA.

Pilot Study: Implement a pilot HIRA study on a select Construction repair & maintenance projects to test and refine our procedures.

Full Implementation: Roll out the HIRA process across all Construction repair & maintenance projects and other relevant activities.

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J B NERLIKAR & ASSOCIATES
CONSTRUCTION MANAGEMENT & COMPLIANCE

Continuous Improvement: Establish a system for continuous improvement and regular updates to the HIRA process based on practical experiences and feedback.

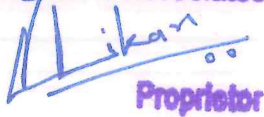
We trust that this declaration will assure you of our commitment to enhancing our health and safety practices through the implementation of HIRA studies in our future works. For any further information or clarification, please do not hesitate to contact us at:

Contact Person: Sandesh Patil

Phone: 9028598074

Email: patilsandesh874@gmail.com

Sincerely,
For J B Nerlikar & Associates



Proprietor

Jitendra B Nerlikar

Proprietor

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