



**SPPS CONSTRUCTION INDIA PRIVATE LIMITED**

Everything is possible

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# CONSTRUCTION SAFETY PLAN

## INTRODUCTION:

We **SPPS Construction India Private Limited** are very much concern about the safe working environment for our workmen and give prime focus on the same.

As part of measures to improve and consolidate upon the existing safety measures on site, this document is hereby compiled to outline the basic safety plan requirements to be implemented and guidelines to ensure construction works on site are executed within optimum safe levels.

It describes the methodologies for identifying and analyzing construction risks, process steps, operations and controls, approaches for mitigating identified workplace risks and the process for reporting safety events.

This construction safety plan shall be communicated and made available to all stakeholders and persons involved in the construction work and visitors to the site, who must understand and comply with its requirements at all times and shall be updated as the need arises.

## HEALTH AND SAFETY RESPONSIBILITIES

### PROJECT MANAGER/ HEAD OF UNITS

- Coordinate planning meetings for project safety
- Ensure that safety and health issues are addressed with maximum priority
- Ensure dedicated project resource for safety.
- Conduct weekly safety meetings
- Implement safety program and policy
- Monitor safety performance on the project through observation, inspection, corrective action and documentation.

## SUPERVISORS/FOREMEN

- Implements safety program and policy
- Promote accident prevention through constant communication
- conduct weekly safety meetings
- identify hazards and advise on proper and approved safety guards and PPE
- require all workers to comply with health and safety regulations

## HEALTH SAFETY OFFICER

- Develop and maintain safety training program(s)
- Assist in Project safety planning
- Conduct routine inspection of job sites
- Implement safety program and policy
- Require all workers to comply with the health and safety regulations.

## OTHER WORKERS

- Work in a safe manner at all times and comply with all safety rules, procedures and requirements.
- Report all accidents, near misses and unsafe conditions
- Attend safety meetings

## VISITORS

- Visitors shall be required to act in a safe manner while at the construction site.
- Visitors to the construction site must be appropriately dressed and must obtain a safety clearance from any member of the safety team before accessing the construction site.
- Visitors touring the site should not be left unattended to by their host or any of his/her representative.
- All visitors to the construction site must check-in with the security at the entrance of the construction site and check-out at the point of leaving.

## SUBCONTRACTORS (NORMINATED/DOMESTIC)

- Provide a site specific safety plan prior to commencement of any work.
- Work in a safe manner at all times and comply with safety rules, procedures and requirements.
- Report all accidents, near misses, and unsafe conditions.
- Provide MSDS (material safety data sheet) for all equipment and materials brought to site.
- Attend weekly safety meetings.
- Provide weekly Job hazard analysis (JHA) on a timely basis.

# SAFETY STANDARDS

**SAFETY MEETINGS:** Project team will hold a weekly safety meeting every Monday morning at 7:30am. Attendance of all person's on site is mandatory. Minutes of meetings shall be documented for the records.

**NEW COMERS ORIENTATION:** Each new comer shall be required to attend an orientation prior to their commencement of work on site. Contractor/ Subcontractor's shall orient new individuals in their team who works on site.

**DRUG AND ALCOHOL POLICY:** Alcohol or drugs are not to be consumed on premises before or during work hours. No smoking.

**PERSONAL PROTECTIVE EQUIPMENT PPE:** All persons on site must be properly kitted in their safety apparels which includes helmets, high visibility jackets/over coat, eye protection and safety boots at all times. other PPE such as gloves, ear plugs safety belts shall be used as appropriate for the task being performed.

**GOOD HOUSEKEEPING:** Housekeeping at the respective work sites is the responsibility of all i.e. the Main contractor, Subcontractors (Nominated and Domestic) and must be carried-out on a daily basis.

**JOB HAZARD ANALYSIS (JHA):** Job hazard analysis will be required to be completed by each on site subcontractor for them to identify hazards associated and surrounding their works. JHA's are to be turned in no later than 3:30pm each Friday. This shall be reviewed by the Head Safety Officer and incorporate for discussion at the following Mondays safety meeting.

### **JOB HAZARD ANALYSIS (GENERAL):**

The following are the identified Job hazard analysis mainly associated with the execution of various task on site. This will be discussed regularly as a Project team and measures taken to prevent or control their occurrence. Subcontractors both Nominated and Domestic shall be required to provide their JHA's particularly on Jobs with relatively higher risk or that poses unsafe conditions. This is to ensure more safety awareness and prevention.

Only competent persons shall be allowed to complete specific tasks. According to Occupational Safety and Health Administration (OSHA) a "competent person" is one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to workers and who has authorization to take prompt correct measures to eliminate them.

## DEMOLITION

HAZARDS	CONTROLS
Collapsing Structure	Trace and understand the load paths prior to demolition and direct demolition along safe paths
Dust and Flying Debris	Use water control, safety net and housekeeping to control
Pits, Holes, Leading edges	Barricade off area, use warning signs and caution tapes
Overhead work	Use goggles or face shield.

## EARTHWORK

HAZARDS	CONTROLS
Active Utility Lines	Re-locate and use spotter when digging
Excavation	Proper shoring barricaded off and sloping areas tap
Moving Equipment	Equipment shall have back-up alarms and distance of 6.5m kept. A standby flag personnel shall monitor areas around monitor equipment and ensure safety.

## SITE UTILITIES

HAZARDS	CONTROLS
High Voltage Equipment	Ensure power has been isolated from such equipment and that there are no residual currents/charges before order commencement of such works

Utility Lines	Relocate/Disconnect power prior to any work in such locations.
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## CONCRETE

HAZARDS	CONTROLS
Concrete burns	Wear gloves and safety glasses
Tripping	Keep materials and debris well packed-up and ensure good housekeeping around work area.

## MASONRY

HAZARDS	CONTROLS
Falls	Use properly installed/erected scaffolds and ladders
Eye, Hand, Foot injuries	Wear proper PPE
Dust	Use dust controls - nose masks.

## CARPENTRY

HAZARDS	CONTROLS
Eye injuries	Use eye protection
Power tool injuries	Ensure tools in good repair, use blade guards check power cords
Falls	Make sure ladders and scaffolds are properly used and erected. use handrails and barrier where required
Hand Injuries	Use hand gloves.

## ROOFING

<b>HAZARDS</b>	<b>CONTROLS</b>
Fall	Stay within bump line, use personal fall arrest if outside the bump line
Falling loads	Properly barricade off area
Foot and Hand injuries	Use safety shoes and hand gloves
Hot work	Fire watch, fire extinguishers readily available
Holes	Label "HOLE" secure roof.

## WINDOW INSTALLATION

<b>HAZARDS</b>	<b>CONTROLS</b>
Eye injuries	Eye protection from breaking glass

## METAL WORKS AND FRAMING

<b>HAZARDS</b>	<b>CONTROLS</b>
Power operated equipment	Only certified operator can operate equipment, use eye protection.
Cuts	Use hand gloves, watch for sharp edges, burrs
Tripping	Keep work area free from obstacles, use safety boots.
Hot works and cutting works	Use hand gloves, safety glasses and keep fire extinguishers handy
Falling loads	No work under suspended loads.

## CEILING WORKS

<b>HAZARDS</b>	<b>CONTROLS</b>
Eye injuries	Use eye protection

Falls	Ensure proper set-up and use of ladders and scaffolds and stilts.
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Hand injuries /Dust	Use Hand and nose protection.
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## CABINET WORKS AND COUNTERS

HAZARDS	CONTROLS
Eye injuries	Use eye protection
Falls	Proper set-up and use of ladders
Adhesives	Proper ventilation.

## FIRE SPRINKLERS WORKS

HAZARDS	CONTROLS
Eye injuries	Use eye protection
Falls	Proper set-up and use of ladders and scaffolds
Cutting pipes	Use hand gloves.

## PLUMBING

HAZARDS	CONTROLS
Open trenches	Barricade off area
Cutting	Use hand gloves.

## HVAC

HAZARD	CONTROLS
Falls	Proper set-up and use of scaffolds and ladders
Cuts	Watch for burrs, sharp edges use hand gloves
Falling loads	Proper rigging. Don't work under suspended loads
Electrocution	Switch off breakers, ensure no current flowing in electric motors before start of work.

## ELECTRICAL LOW VOLTAGE

HAZARD	CONTROLS
Electric shocks/Electrocution	Switch-off from panels, breakers, use tape tag where necessary, confirm no current flow. use insulating materials.
Falls	Ensure proper set-up of ladders
Hand injuries	Use hand gloves to prevent shocks and injuries.

# RESOURCES

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Helmets
- Reflective jackets/overalls
- Safety boot/shoes
- hand gloves
- Protective glasses/goggles
- Nose masks



## MEDICAL

- First Aid Kits

## FIRE

- Fire extinguisher

## OTHER SAFETY EQUIPMENT

- Safety Nets
- Safety belts and Fall Arrest Systems
- Safety Signs

## TRAFFIC CONTROL

Any activity either within or outside the construction site that changes sidewalks, affects pedestrian or vehicular traffic will require one or more of the following to be implemented.

- Flagging will be utilized as needed
- Traffic control will be set-up and taken down as needed
- Barricading where necessary shall be used to separate pedestrian path from vehicular traffic
- Safe, clearly marked routes shall be maintained through and around hazardous activities at all times.

## EMERGENCIES

The senior person on site:

- Shall always keep selected individuals on site to help with incidents
- In an incidence shall immediately call the attention of the Head Safety Officer.

- Initiate site control and account for all workers

An emergency could occur at any moment, hence it will be ensured that access and egress areas remain clear and marked in the event of an emergency.

#### FIRE PREVENTION PLAN

- General safety measures shall be taken
- Fire extinguishers shall be provided close to points of flash fire/heat works
- Routine checks carried-out on fire extinguishers to ensure that they are properly charged and accessible.
- Stairway access and egress shall be illuminated during work hours
- All access routes shall be unobstructed and maintained
- Exit signs shall be posted at the exit point(s)
- Good housekeeping practices to ensure that combustible debris are removed from work places on a regular basis.

#### HOT WORK

This includes any work involving operations capable of initiating fires or causing explosion. The following constitutes hot work; cutting, welding, brazing, soldering, grinding or any other similar activity. The use of hot work equipment shall be in accordance with the following requirements, including a pre-site inspection, fire watch and post inspection procedures;

- Ensure that hot work site is clear of combustibles
- Ensure a fully charged fire extinguisher is readily available
- Position a fire watch personnel with the responsibility to watch for occurrence of fire during and after hot work operations.
- The fire watch shall be maintained a minimum of 30mins after the conclusion of the work to look out for left-over sparks, slag or smoldering combustibles.
- Hot work shall cease 2 hours before the close of days work

## FALL PROTECTION PLAN

- Fall protection (guard rails, warning lines, hole covers) will be used to protect workers expose to a fall hazard above 2m. When the site condition or work process makes this impracticable, personal fall arrest system will be used.
- Toe boards and safety net will be used to protect against falling objects where applicable.

## SITE SAFETY AUDIT/RECOMMENDATION

Site safety audit will be a continuous process and shall be reviewed monthly. Hence, on resumption of work on site, a Site Safety audit shall immediately be carried-out and any or all of the following obvious recommendations made where necessary;

- Existing scaffolds, cat ladders, wood works/supports and braces replaced or fortified.
- A list of Personal Protective equipment will subsequently be made available to provide safety wears for the various categories of workers.
- Fire extinguishers provided at the site offices and the respective work locations at the main building.
- Safety net to be made available to provide a protective screen/shield against falling objects from the Main building and other ancillary buildings.
- Provision of other safety equipment such as safety belts, fall arrest systems and safety signs.
- Selected trainings and routine safety drills shall be organized for specific needs and targeted to enhance and empower members of the project team on the execution of basic safety first aids. This is to create a more safety conscious team and enhance the teams readiness to handle emergencies should they arise.

# SITE SAFETY



Construction work in progress  
Parents are advised to warn  
children of the dangers of  
entering this site



**Danger**  
Demolition work  
in progress



**No admittance  
for unauthorised  
personnel**



**Use ear  
protectors**



**This is a  
hard hat area**



**High visibility  
jackets  
must be worn**



**Protective  
footwear  
must be worn**



**Warning**  
Look out for  
overhead loads