


INTER PLANT STANDARD - STEEL INDUSTRY		
 IPSS	SAFETY PROCEDURE FOR WORKING AT HEIGHT BY REGULAR EMPLOYEES OF PLANTS / MINES	IPSS:1-11-008-20 <i>(Second Revision)</i>
	No corresponding Indian Standard exists	IPSS: 1-11-008-14 <i>(First Revision)</i>

0. FOREWORD

- 0.1 This Inter Plant Standard prepared by the Standards Committee on Safety Appliances and Procedures IPSS 1:11, with the active participation of the representatives of all steel plants and associated organizations in the field. This standard was adopted in July, 1998. It revised with first revision in October, 2014 and with second revision in **June, 2020**.
- 0.2 This is one in the series of Inter Plant Standards in the area of safety in steel plants with a view to providing guidance to all concerned in accident prevention.

1. SCOPE

- 1.1 This Inter Plant Standard provides guidance in carrying out work at heights at 2.0 m and above from ground level or wherever there is likelihood of fall at site, in a safe way to avoid accidents.

2. TERMINOLOGY

- 2.1 For the purpose of this standard, the definitions given in IPSS: 1-11-001-98 `Definition of Terms Related to Safety` shall apply.

3. NECESSARY DOCUMENTATION

- 3.1 **Safety Requirements / Precautions** – Before starting a work at height, all the safety requirements (like Full body harness with double lanyard, fall arrester, protective helmets and safety nets) shall be decided as per the need of the area / site by the executing agency in collaboration with the the Concerned Shop Authority/ His designate of the concerned shop where the job is being done. These shall be documented; a suggested checklist is given at **Appendix-A**.

NOTE: Because the regular employees of plants / mines are imparted necessary training covering skill and safety aspects, in a regular and repetitive manner by the management, they need not be issued height pass which is essential for the contractor's workers.

4. REQUIREMENTS OF WORKERS FOR WORKING AT HEIGHT

- 4.1 Every employee to be deployed for working at height shall be periodically examined and certified by Medical Officer of plant / mine for physical and mental fitness, which shall include general fitness and freedom from epilepsy, vertigo etc.

5. EXECUTION OF WORK AT HEIGHT

- 5.1 Procedure for working at height shall be made applicable for compliance by the executing officer(s) whenever they deploy employees to work at height at or above two meters.
- 5.2 All safety precautions prescribed in document mentioned at 3.1 shall be complied with by the executing agency.
- 5.3 100% tie off to be insured through availability of anchorage points. Provision of lifelines to be insured for work requiring movement at height.
- 5.4 Safety net shall be used wherever considered necessary by the executing officer and the Concerned Shop Authority/ His designate of the concerned shop where the job is being done. Safety net made of preferable material shall be used where there is a possibility of welding spark, molten material, burning spark or material, etc falling on it.
- 5.5 Before starting the day's work, the site shall be inspected by the executing officer for ensuring compliance of all safety aspects. After ensuring compliance of all safety aspects, the Executing Officer and the Concerned Shop Authority/ His designate of the concerned shop where the job is being done shall sign the document given at **Appendix-A** giving clearance for starting the work. In the event of discontinuation of the work and before re-starting, the site inspection shall be re-done as above by the executing officer.
- 5.6 100% Supervision of all height jobs is to be ensured by supervisor(s) or Executive(s). All stipulation of the standard shall be applicable to Supervisor(s)/ executive(s), however they shall not be required to fill the check list.
- 5.7 Work at height shall be permitted only when a reasonable level-of natural sunlight is available as per the discretion of the contractor, Executing Officer and the Concerned Shop Authority/ His designate of the concerned shop where the job is being done. The work shall not be permitted in inclement weather conditions like, Heavy Rain, Lightning, scorching heat, Thunder storm, high wind velocity etc. When work at height is done indoors, there shall be adequate illumination.

- 5.8 Proper scaffolding and working platform with hand railing and foot boards as per relevant Indian Standard before taking up any height job.
- 5.9 Proper means of access and egress to be insured for all work at height.
- 5.10 Underneath area to be barricaded for providing protection against hazards due to falling objects.
- 5.11 Adequate Safety signage's/ caution board to be conspicuously displayed for alerting personnel about imminent hazards.
- 5.12 It is advisable not to use mobile phones while working at height.
- 5.13 Tool Box talk / safety talk to be imparted to all personnel engaged in height job and a record of same to be maintained.

APPENDIX – A
(Clause 3.1)

CHECKLIST OF REQUIREMENTS / PRECAUTIONS FOR WORKING AT HEIGHT

_____ Steel Plant

1. Name of the Department executing the job :

2. Name of the departmental supervisor(s) :

3. Exact location of work :

4. Brief description of work :

5. No. of persons deployed for the job :

6. Names of persons deployed to do this Job at height :

7. All persons imparted training for working At height by Safety Engineering Department : Yes / No
8. Operation Department informed of this Job : Yes / No
9. Shut down of operating equipment
EOT crane : Yes / No
Belt Conveyor : Yes / No
Gas lines : Yes / No
Bus bars : Yes / No
Pusher car : Yes / No
_____ : Yes / No

- _____ : Yes / No
_____ : Yes / No
_____ : Yes / No
10. Checking of scaffoldings / ladders : Yes / No
And found with required strength
11. Availability & Usage of full body : Yes / No.
harness ensured
12. Usage of protective helmets : Yes / No
13. Provision of lifeline/ anchorage points : Yes/No.
14. Provision of safety nets for arresting : Made / Not necessary
fall of personnel
15. Weather is clear to do the job : Yes / No
16. Underneath area barricaded : Yes/No
17. Illumination is adequate to do the job : Yes / No
(indoor work)
18. Safety Signage's provided : Yes / No
19. Satisfactory house-keeping condition : Yes / No
(sharp objects, redundant cables and
Structurals, slippery objects like oils
and lubricants shall not be allowed in
the working area)
20. Job to be started only after insuring Compliance to all checklist points Special
remarks
a) This checklist is valid for today only.
b) Job to start only after compliance to all checklist points
21. Safety Talk imparted and record kept : Yes/ No
Inspected the site and permitted to start the work.

Signature : Executing Officer Concerned Shop Authority/ His designate

Name : _____

Designation : _____

Contact/ Mobile No: _____

Date: _____

Time: _____