

Personal Protective Equipment, PPE (Issue, IS standard, Use, Stock & Monitoring system)

Introduction

Importance of protective equipment in industry is very high. PPE should be the last resort or a supplementary control.

Aneja Constructions I Limited shall provide all required PPE to its employees in accordance with TSL job requirement. All PPE supplied and used by ACIL shall meet corresponding Indian standards.

Mandatory PPE

Safety helmet, Safety shoes, Eye protection and High visibility fluorescent jackets are mandatory PPE for all employees. No one shall be permitted to enter the work site without the above mentioned PPE. Other PPE shall be used as per the PPE matrix given below:

Replacement of Safety Shoe is One Year, Safety Goggles three months, fluorescent jacket six months & safety helmet as per use.

Replacement may be done earlier as per the condition of PPEs or change in PPE requirements as per TSL

PPE Matrix

Activity	Type of Protection							
	Head	Foot	Hand	Eye	Ear	Body	Face	Respiratory
Mandatory PPEs for Site	H*	SS*	-	SG*	-	FJ*	-	-
Welding / Grinding	H	SS & LG	LHG	FS/SG	-	FRJ & LG	NM	SCBA (Confined Space)
Material Handling	H	SS	LHG	SG	-	FJ	NM	-
Working at Height	H	SS	LHG	SG	-	FJ & FBH	-	-
Mechanical maintenance work	H	SS	CG	SG / FS	EP/ E	FJ & FBH	NM	-
Working in high noise area/Using	H	SS	LHG	SG	EP/ E	FJ	NM	-
Temporary Elect. Wiring	H	SS	HG	SG	-	FJ	NM	-
Confined Space/ Oxygen deficient	H	SS/ GB	LHG	SG	-	FJ	-	SCBA



Safety Helmet	H
Safety Shoe	SS
Full Body Safety Harness	FBH
Safety Goggles	SG
Ear Plug	EP
Ear Muff	EM
Fluorescent Jacket	FJ
Leather Hand Gloves	LHG
Cotton Gloves	CG
Nose Mask	NM
Fire Retardant Jacket	FRJ
Face shield	FS
Leg Guard	LG
Gum Boot	GB

PPEs must be issued and available with contractors at site.

IS Code for PPE's – Aneja Constructions I Limited shall procure only certified PPE's for the work.

Sl. No.	Type of PPE	IS Code
1	Safety Helmet	IS 2925 – 1984
2	Full Body Safety Harness	IS 3521 – 1999
3	Safety & Welding	IS 8940 – 1978 / IS 1179 – 1967
4	Ear Plugs , Ear Muffs	IS 9167 – 1979
5	Dust respirators & Nose masks	IS 9473 – 2002
6	Hand gloves- Rubber/Cotton and leather	IS 4770 – 1968 / IS 2573 – 1986/ IS 6994 – 1973 part I
7	Face Shields	IS 8940 – 1978
8	Apron	IS 4501 – 1981
9	Leg Guard	IS 6153 – 1971
9	Safety Shoes	IS 1989
10	High visibility reflective jacket	Not part of the standard
11	Fall Arrestor	IS 8519 – 1972

Use of Personnel Protective Equipment

Personnel Protective Equipment (PPE) to be used at work site for the various activities as mentioned below:

Sl. No.	Type of PPE	Activity to be used in
1	Safety helmet	While in work site (For all activities.)
2	Full Body Safety Harness	While working on or above 2.0 M height
3	Safety & Welding Goggles	While carrying out activities like welding, cutting, grinding, chipping, drilling, dismantling, painting, sanding, pneumatic appliances,
4	Ear plugs , Ear muffs	In high noise level area (above 80 decibel limits) like pavement breaking operation, in running DG area, raw mill and grinding mill areas.
5	Dust respirators & nose masks	In dusty atmosphere like cleaning job, refractory application, dismantling jobs etc.
6	Hand gloves- Cotton / leather / rubber	In almost all activities like Fabrication job, material handling, tools handlings, grinding, welding, scrap removal, cutting, bar bending, carpentry.
7	Face shields	Grinding operations and hot work.
8	Apron	Any hot working application.
9	Leg Guard	Welding, Gas Cutting, Grinding.
9	Safety Shoes	At all activities while in work site
10	Fall Arrester & Safety Net	Working at heights, openings etc.

Issue, replacement and stock record of PPE:

- **Aneja Constructions I Limited** shall maintain issue and replacement register of PPE for their employees.
- These records shall be maintained employee name wise in a register.
- Store incharge shall maintain 10% of total requirement of PPE available at their store and stock record shall be monitored.

Monitoring of proper use of PPE

To ensure protection of employees against physical/chemical/biological hazards according to plan, the PPE must be properly used. **Aneja Constructions I Limited.** shall take all reasonable steps to ensure that any PPE provided to its employees is properly used. Employees should not misuse or damage the equipment. The in-house safety rules should explicitly indicate circumstances under which PPE should be used.

To ensure proper use of PPE, the following aspects should be monitored:
The employees follow instructions as laid down in the in-house safety rules and use the PPE
Provided to them whenever required.

- a) The PPE is used only after adequate training has been given to the user.
- b) The PPE is in good working condition.
- c) The PPE is properly worn and correctly fitted to the wearer.
- d) The PPE is properly cleaned and stored/kept after use.
- e) The maintenance schedule of the PPE is strictly followed.



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LIST THE USE OF PPE WISE SCHEDULE

ACTIVITY	PPE SELECTION						
	HEAD	EYE	EAR	HAND	FOOT	BODY	REMARKS
Mandatory minimum PPEs for site	Safety Helmet	Safety Goggle	Ear Muff	Gloves	Safety Shoes	High visibility jacket	
Electrical arc welding	Helmet mounted welder shield	Helmet mounted welder shield	-	18m shock proof leather hand gloves	Safety shoes leg guard	Welders radiation resistance Rouser/Aprons	
Gas welding & cutting	Safety Helmet	Gas cutting Goggles	-	18m leather hand gloves	Safety shoes leg guard	Welders radiation resistance Rouser/Aprons	
Working at height	Safety Helmet	Safety Goggle	-	Gloves	Safety Shoes	Double lanyard full body harness, High visibility jacket	
Concrete work	Safety helmet	Safety Goggle	-	Cotton gloves	Safety Shoes/ Goom Safety shoes	High visibility jacket	
Excavation	Safety helmet	Safety Goggle	-	Safety Gloves	Goom Safety shoes	High visibility jacket	
Jack hammer/Rock breaker operation	Safety helmet	Safety Goggle	Ear plug or muff	Safety Gloves	Safety Shoes	Safety Shoes	

