

**कार्यालय -स्वास्थ्य सुरक्षा एवं पर्यावरण विभाग ,
बी.एच.ई.एल , हीप हरिद्वार**

S.N-HSE/HEEP/PQR/2019-20

Dated – 18/06/2019

PRE-QUALIFICATION REQUIREMENT (PQR) FOR VENDORS FOR PURCHASE OF
ITEMS IN MPR NO -20190236

The Vendors meeting following criterion would be considered :-

3. Vendor should be Manufacturer Or their authorized dealer, Distributer ,
supplier of Items Combination unit of Safety Shower and Eye washer,
Plain glass, Welding filter 14 Din , Welding filter 12 Din , safety
spectacles/Goggles or welding accessories or safety products.
4. Authorized dealer, Distributer, Supplier should submit the
authorization letter from their concerned Manufacturer

Head/AGM (HSE)

[Signature]
21.06.19

[Signature]
21.06.19
Kamal Kulshrestha
Safety Officer

FORM DG 49

BHEL/HEEP/HSE/1105

Rev. No. 00

PAGE 1 OF 4



PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

COMBINATION UNIT OF SAFETY SHOWER AND EYE WASHER ✓

1. Scope

This standard covers the requirement of Combination unit of Safety shower and Eye Washer.

2. Compliance with Standards

It shall comply with the IS 10592-1982 standards.

3. Technical Requirement

1. The safety shower should be able to wash the entire body surface with large volumes of water in the shortest time.
2. Eye washer must be provided with a pair of eyewash heads and a receptacle for collection and drainage of spilled water.
3. The unit should confirm Basic Design as per the clause 4.1 & 5.1 of IS 10592-1982.
4. The emergency shower should deliver a pattern of water with a diameter of at least 50.8 cm (20 inches) at 152 cm (60 inches) atmospheric pressure.
5. Shower head should be between 208.3 and 243.8 cm (82-96 inches) from the floor.
6. The minimum volume of spray should be 75.7 liters / minute (20 gallons / minute) for a minimum time of 15 minutes.
7. The shower should be designed in such a way so that it can be activated in less than 1 second, and it remains operational without the operator's hand on the valve (or lever, handle, etc.).
8. The valve should not be more than 173.3 cm (69 inches) in height.

SIGN & DATE

	NAME	DESIGNATION	SIGNATURE	DATE
WORKED	ABHAI SINGH	SAFETY OFFICER / DY. MGR		07/08/09
CHECKED	V.K. SAXENA	CHIEF SAFETY OFFICER/SR.MGR		07/08/09

INVENTORY NO.

APPROVED BY

AJEET KUMAR SHARMA
DGM (HSE)

Revision No.

Page No.

ITEM CODE

ISXW00200018 ✓

DATE OF
ISSUE

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20.06.19
(Kamal Kulkarni)
Safety Officer

20.6.19
(V.K. Saxena)
Head (HSE)



PLANT PURCHASING SPECIFICATION

HEEP – HARDWAR

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9. Eyewash stations should be designed to spray water on both eyes simultaneously at a volume of not less than 1.5 liters / minute (0.4 gallons / minute) for 15 minutes.
10. The spray should not be at a velocity which may injure the eyes.
11. The complete unit should be made from corrosion resistant materials.
12. The unit should confirm the performance as per clause 7.1 of IS 10592-1982.
13. The unit must be tested as per clause 4.4 & 5.4 of IS 10592-1982 for Shower and Eye Washer.

5.0 Test Certificate ✓

The supplier shall furnish two sets of ink signed, original test certificates of the equipment as per requirements of relevant Indian standard 10592-1982. One set of test certificates will be required along with dispatch documents and the other along with supply of the equipment.

6.0 Marking & Packing

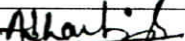
Marking and packing should be as per clause 8 of IS 10592-1982. Marking should be deep and adequate in size for clear vision.

7.0 Inspection

Inspection will be carried out at our works with reference to test report, BHEL will inspect at the works wherever required.

8.0 Guarantee Certificate ✓

The supplier shall furnish guarantee against any design /manufacturing defect and performance guarantee of Combination unit as per quoted performance parameters for a period of 12 months from the date of acceptance of the equipment at our end.

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INVENTORY NO.				APPROVED BY	
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	Revision No.	Page No.	ITEM CODE ISXW00200018	DATE OF ISSUE	

~~WSP~~
20.06.19
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V.K. Saxena
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PLANT PURCHASING SPECIFICATION

HEEP – HARDWAR

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9.0 Operation, Maintenance & Spares:

- The supplier has to clearly mention periodic maintenance schedule for various components.
- The supplier must quote separately for recommended spares and consumables required for 3 years operations of the equipment and the offer should be valid for at least 12 months from the date of acceptance of the instrument at our end.

10.0 Document and Literature:

Four copies of descriptive leaflets, technical literature, operation and maintenance manual are to be supplied along with each equipment.

11.0 Users:

The supplier shall give a list of users of similar equipment supplied by them in India, along with their contact details. The contact details should contain name, address, department, telephone number, e-mail address, model of equipment, year of supply etc.

SIGN.	DATE	NAME		DESIGNATION	SIGNATURE	DATE
		WORKED	ABHAI SINGH	SAFETY OFFICER / DY. MGR	<i>Abhai Singh</i>	07/08/09
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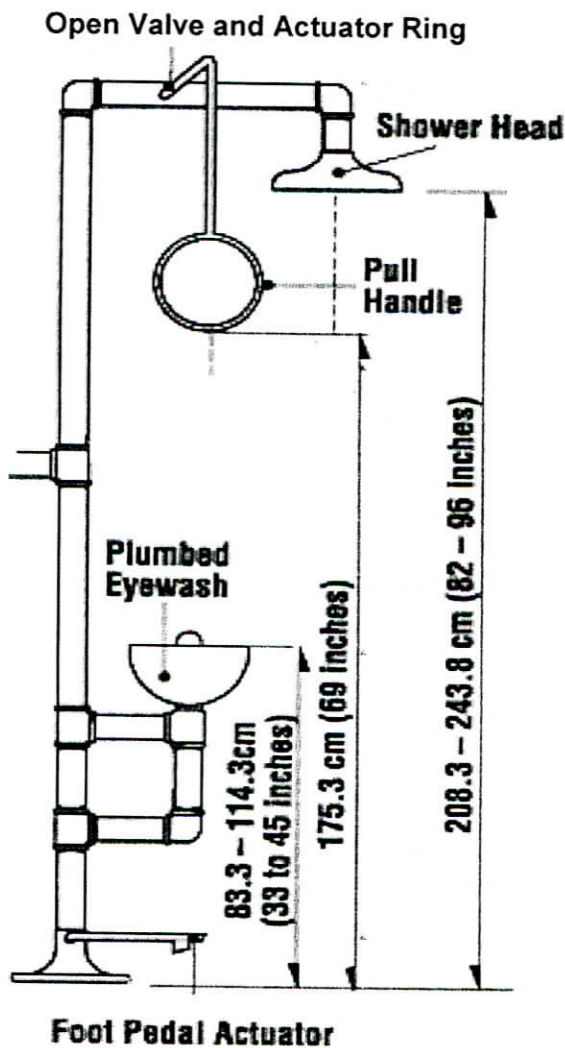
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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

FIG.: COMBINATION UNIT OF SAFETY SHOWER AND EYE WASHER



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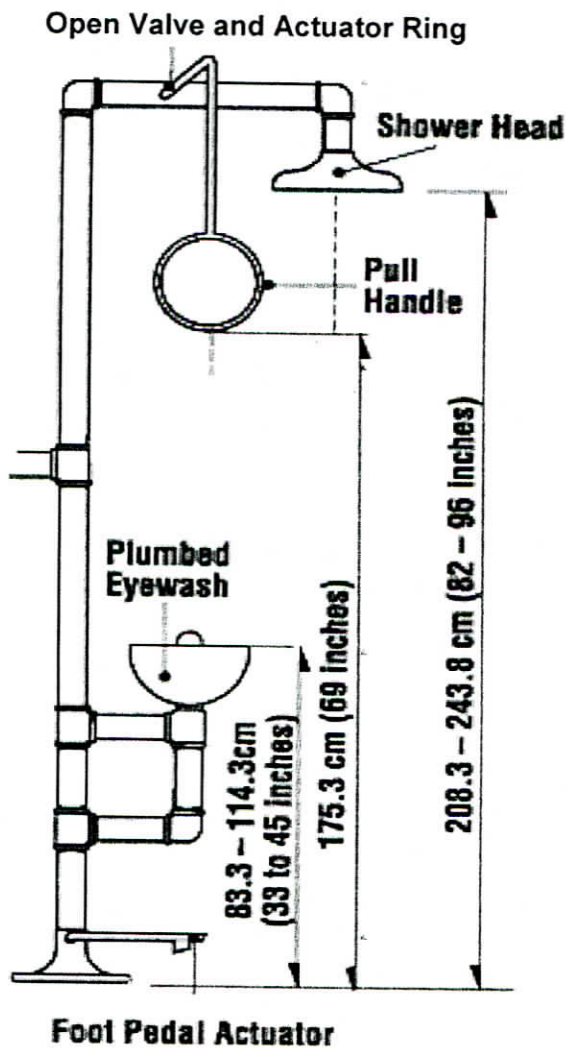
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PLANT PURCHASING SPECIFICATION HEEP – HARDWAR

FIG.: COMBINATION UNIT OF SAFETY SHOWER AND EYE WASHER



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C/6190/2019/1143/F

Annexure - C

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PLANT PURCHASING SPECIFICATION

HEEP – HARDWAR

EYE WEAR WITH BLACK LENS

4.0 Scope

This Specification covers the requirements of **Dark Black lens Eye Wear**.

5.0 Compliance with Standards

It shall comply with IS 5983 – 1980 (Reaffirmed – 2002)

6.0 Technical Requirement

1. **Eyewear type:** - Spectacle type that primarily provides protection against impact from flying objects & optical radiation. Spectacle should be frameless with a sporty wraparound design. Black lens (with silver reflective finish on the outside of the lenses) provided in it should be able to protect eyes from intense visible light.
2. **Temple type:** - 5 position adjustable temples
3. **Front type:** - Front should be made of non-removable Plano lens.
4. **Lens:** - The Lens should be made of polycarbonate with 7 base curve, & should provide 99% UV protection. Also silver reflective finish should be on the outside of the lens.
5. **Lens Thickness:** - 2.2 mm – 2.3 mm at center.
6. **Bridge type:** - Soft vinyl nose pads should be provided for extra comfort.
7. **Head grip:** - Non-slip rubber head grip should be provided for secure fit.

4.0 Sample ✓

Sample should be got approved before bulk supply.

5.0 Test Certificate ✓

5.1 The supplier shall submit the following test certificates along with the bulk supply:

- a) High Velocity Test
- b) High Mass Impact Test
- c) Min Thickness & Penetration Test
- d) Zero Power Test

7.0 Packing

The eyewear shall be packed in individual Hygienic box/pack.

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CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER			
INVENTORY NO.	APPROVED BY		 V.K.SAXENA AGM (HSE)/CSO	DATE OF ISSUE 20-06-19	
	Revision No.	PAGE NO			ITEM CODE ISXW00200603 ✓

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20-06-19
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Head (HSE)



PLANT PURCHASING SPECIFICATION HEEP – HARDWAR

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INVENTORY NO.

9.0 Inspection

Inspection will be carried out at our works with reference to the accepted sample and test reports.

10.0 Guarantee Certificate ✓

Guarantee certificate to be given for any manufacturing defects along with its consignment for free replacement within Six months from the date of receipt at stores.

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Revision No.	PAGE NO	ITEM CODE ISXW00200603	DATE OF ISSUE 20-06-19

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C/6190/2019/1143/P

Annexure-D

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FORM DG 49

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Rev. No. 00

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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

PLAIN GLASS FOR ARC WELDING

1.0 Scope

This specification covers the requirements of plain glass protective cover for arc welding.

2.0 Compliance with Standards

It shall comply with IS: 5983 - 1980 Reaffirmed 1997 & IS 1179 - 1967, Reaffirmed 1997.

3.0 Technical Requirement

1. It shall be made of clear glass, and shall be free from optical defects, lens or prism defects and shall be of uniform surface
2. It shall have transmission to visible light not less than 85%.
3. The thickness shall be $2.0 + 0.5/-0$ mm.
4. It shall be of size 105mm X 80mm $+4/-0$ mm suitable to fit in the welding shield.

4.0 Sample ✓

Sample should be got approved before bulk supply.

5.0 Packing

The glass shall be supplied with good quality box for protection from damage.

6.0 Inspection

Inspection will be carried out at our works with reference to the test reports.

7.0 Guarantee Certificate ✓

Guarantee certificate to be given for any manufacturing defects along with its consignment for free replacement within Six months from the date of receipt at stores.

8.0 ✓ Test Certificate:- Test certificate required as per IS. with bulk supply. *bro*

SIGN & DATE	NAME	DESIGNATION	SIGNATURE	DATE
WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER	<i>[Signature]</i>	24.08.18
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INVENTORY NO.	REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT FACE PROTECTION		APPROVED BY V. K. SAXENA Head (HSE)/CSO	
	Revision No.	PAGE NO	ITEM CODE	DATE OF ISSUE
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Annexure - E

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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR <u>WELDING FILTER GLASS SHADE. NO. 14</u> 1.0 Scope This Specification covers the requirements of Welding filter glass Shade No-14 for welding application. 2.0 Compliance with Standards It shall comply with IS: 5983 - 1980 Reaffirmed 2013 & IS 1179 - 1967, Reaffirmed 2013 or relevant standards. 3.0 Technical Requirement - The filter glass shall be made wholly of glass, free from optical defects. - The thickness of filter glass shall not be less than 2.0 mm and not more than 3.0 mm. - It shall be of size 105mm X 80mm, suitable to fit in the welding shield, permissible tolerance +4mm, -0mm. - The filter glass shall have clear marking of shade number engraved on it. 4.0 Sample ✓ Sample should be got approved before bulk supply. 5.0 Test Certificate ✓ 5.1 The supplier shall submit the test certificate along with the bulk supply as per IS for Optical property and Filtering efficiency 5.2 The test certificate shall also indicate the Batch No. & date. 6.0 Packing The filter lenses shall be supplied with good quality box for protection from damage. 7.0 Marking The filter lenses shall be marked with the Shade Number. 8.0 Inspection will be carried out at our works with reference to the accepted sample and test reports. 9.0 Guarantee Certificate to be given for free replacement of consignment within six months from the date of receipt at stores if any manufacturing defects is found out. <table border="1"> <thead> <tr> <th></th> <th>NAME</th> <th>DESIGNATION</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>WORKED</td> <td>KAMAL KULSHRESTHA</td> <td>SAFETY OFFICER</td> <td><i>[Signature]</i></td> <td>24.08.18</td> </tr> <tr> <td>CHECKED</td> <td>SIDDHARATH KUMAR</td> <td>SAFETY OFFICER</td> <td><i>[Signature]</i></td> <td>24.08.18</td> </tr> </tbody> </table> <table border="1"> <tr> <td colspan="2">REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT FACE PROTECTION</td> <td colspan="2">APPROVED BY <i>[Signature]</i> 24.8.18 V.K. SAXENA AGM (HSE)/CSO</td> </tr> <tr> <td>Revision No.</td> <td>PAGE NO</td> <td>ITEM CODE</td> <td>DATE OF ISSUE</td> </tr> <tr> <td>00</td> <td>34</td> <td>ISXW00201669 ✓</td> <td></td> </tr> </table>							NAME	DESIGNATION	SIGNATURE	DATE	WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER	<i>[Signature]</i>	24.08.18	CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER	<i>[Signature]</i>	24.08.18	REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT FACE PROTECTION		APPROVED BY <i>[Signature]</i> 24.8.18 V.K. SAXENA AGM (HSE)/CSO		Revision No.	PAGE NO	ITEM CODE	DATE OF ISSUE	00	34	ISXW00201669 ✓	
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Annexure - F

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SUPERSEDES INVENTORY NO.		PANORAMA SAFETY GOGGLE ✓																		
		1.0 Scope This standard covers the requirements of panorama goggles for use against flying particles. 2.0 Compliance with Standards It shall comply with IS 5983 - 1980 Reaffirmed 1997. 3.0 Technical Requirement - Its design should be such type that it could be worn over numbered (power) spectacles. - The frame shall be made out of good quality cellulose acetate/Soft PVC material, unbreakable and light in weight. - It shall have two polycarbonate oculars, non fogging, clear visors of thickness 1.0mm to 1.5mm. - The visor shall be free from optical defects like spots, holes, scoring, scratches, bubbles and mould marks. - It shall give protection from flying materials in to the eyes. - It should have indirect ventilation system to prevent fog, liquids and dust. - It shall have 15mm wide adjustable, good quality headband. - It shall withstand elevated temperatures. - It should have films/strips with clear polyester adhesive system which can avoid light diffusion & eliminates distortion. 4.0 Sample : Sample should be got approved before bulk supply. Sample shall be supplied along with technical offer for approval. 5.0 Test Certificate ✓ 5.1 The supplier shall submit the test certificate along with the bulk supply as per IS for - Material Quality - Optical Property 5.2 The test certificate shall also indicate the following. - P.O. Number - Batch No. & date																		
SIGN & DATE		<table border="1"> <thead> <tr> <th></th> <th>NAME</th> <th>DESIGNATION</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>WORKED</td> <td>ABHAI SINGH</td> <td>SAFETY OFFICER / DY. MGR.</td> <td><i>Abhai Singh</i></td> <td>27/1/12</td> </tr> <tr> <td>CHECKED</td> <td>JAGAT NARAIN</td> <td>SAFETY OFFICER / SR. MGR.</td> <td><i>Jagat Narain</i></td> <td>27-1/12</td> </tr> </tbody> </table>					NAME	DESIGNATION	SIGNATURE	DATE	WORKED	ABHAI SINGH	SAFETY OFFICER / DY. MGR.	<i>Abhai Singh</i>	27/1/12	CHECKED	JAGAT NARAIN	SAFETY OFFICER / SR. MGR.	<i>Jagat Narain</i>	27-1/12
			NAME	DESIGNATION	SIGNATURE	DATE														
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CHECKED	JAGAT NARAIN	SAFETY OFFICER / SR. MGR.	<i>Jagat Narain</i>	27-1/12																
INVENTORY NO.	REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT EYE PROTECTION		APPROVED BY  V.K SAXENA DGM (HSE)																	
	Revision No. 00	PAGE NO 26	ITEM CODE ISXW00202258 ✓	DATE OF ISSUE																

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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

6.0 Packing

The goggles shall be packed in individual Hygienic box/pack.

7.0 Marking

The goggles shall be marked with following information

- a). ISI/CE/ANSI mark
- b). Supplier identity/manufacture name/brand name
- c). Month & year of manufacturing.

8.0 Inspection

Inspection will be carried out at our works with reference to the accepted sample and test reports.

9.0 Guarantee Certificate ✓

Guarantee certificate to be given for any manufacturing defects along with its consignment for free replacement with in Six months from the date of receipt at stores.

SIGN &
DATE

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WORKED	NAME	DESIGNATION	SIGNATURE	DATE
CHECKED	JAGAT NARAIN	SAFETY OFFICER / SR. MGR.	<i>[Signature]</i>	27-1-12
REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT EYE PROTECTION		APPROVED BY		<i>[Signature]</i> 27-1-12 V.K SAXENA DGM (HSE)
Revision No.	PAGE NO	ITEM CODE	DATE OF ISSUE	
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c/6/9d 299/1143/F

Annexure - G

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FORM DG 49

BHEL/HEEP/HSE/C/10

Rev. No. 00

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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

PLAIN SAFETY SPECTACLES ✓

1.0 Scope

This specification covers Spectacles designed to protect eye from flying objects.

2.0 Compliance with Standards

- I. It shall comply to IS 7524, ANSI Z87.1:2003 and EN 166:2001.
- II. Authenticated photo copies of the latest test certificates (from OEMs, National Accredited Test Laboratories) to be submitted along with the offer.
- III. Vendor to furnish authorization letter from Principal/OEM against the enquiry quoted.
- IV. Vendor to submit along with the offer, authenticated copy of latest certificate of product conformity to relevant IS/EN/ANSI standards.

5.0 Technical Requirement

1. The frame shall be of good quality cellulose acetate/Light Weight Plastic material and shall have side shield/protection.
2. The Spectacle shall have clear polycarbonate lens of highest optical clarity.
3. The lens should withstand the steel-ball impact test as per the IS 7524 (Part-1)
4. The Lens shall have strong impact protection and shatter resistance and also lens have 99% UV protection.
5. The Spectacle shall have relevant markings on both lens & frame.
6. There should not be any defect either in the frame or in the Lens & both should be of smooth & fine surface quality.

6.0 Sample

Sample should be got approved before bulk supply.

SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
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INVENTORY NO.			APPROVED BY V.K. SAXENA Head (HSE)/CSO	<i>[Signature]</i> 24.8.18	
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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

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5.0 Test Certificate

Supplier shall submit the test certificates along with the bulk supply.

6.0 Marking

The Spectacle shall be marked with the following information

- a) ISI/ CE/EN marks
- b) Supplier identity

7.0 Packing

The Spectacle shall be packed & supplied in suitable cover for protection from dust, scratch and damage.

8.0 Inspection

Inspection will be carried out at our works with reference to the test reports.

10.0 Guarantee Certificate

Guarantee certificate to be given for any manufacturing defects along with the consignment for free replacement within Six months from the date of receipt at our stores.

SIGN & DATE	NAME	DESIGNATIO	SIGNATURE	DATE
WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER		24.08.19
CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER		24.08.18
INVENTORY NO.	APPROVED BY			
	V.K. SAXENA Head (HSE)/CSO		24-8-18	
	Revision No.	PAGE NO	ITEM CODE ISXW00206016	DATE OF ISSUE

20.06.19
(Kamal Kulshrestha)
Safety Officer

20-6-19
(V.K. Saxena)
Head (HSE)

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(V. K. Satena)
Head (HSB)