

C/6/90/2019/1142F

Annexure - 'A'

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

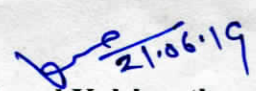
S.N-HSE/HEEP/PQR/2019-20

Dated – 18/06/2019

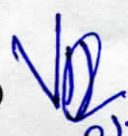
PRE-QUALIFICATION REQUIREMENT (PQR) FOR VENDORS FOR PURCHASE OF
ITEMS IN MPR NO -20190233

The Vendors meeting following criterion would be considered :-

1. Vendor should be Manufacturer Or their authorized dealer, Distributer ,
supplier of Items Respirators , Filters, Mask, or welding accessories or
safety products.
2. Authorized dealer, Distributer, Supplier should submit the
authorization letter from their concerned Manufacturer


Kamal Kulshrestha
Safety Officer

Head/AGM (HSE)


21-6-19

C/6190/2079/1142/F

Annexure - B

FORM DG 49

BHEL/HEEP/HSE/G/05

Rev. No. 00

PAGE 1 OF 2



PLANT PURCHASING SPECIFICATION

HEEP - HARDWAR

FILTER FOR NUISANCE LEVEL ACID GAS RELIEF - 3M 2096

1.0 SCOPE

This standard covers the requirement of P-100 filtering Circular Shaped Particulate Filter for protection against nuisance levels of acid gases -3M 2096 suitable for fitting in 3M Half Face Piece Respirator No, 6200(medium)

2.0 Compliance with standards

It shall comply with the standards IS 8522:1977 /NIOSH standard.

3.0 Technical Requirements.

- 3.8 The Cartridges should be designed to help provide respiratory protection against certain organic vapours and acid gases, when used in accordance with all use instructions and limitations and applicable safety and health regulations.
- 3.9 The cartridge must be durable in nature to ensure no leak of activated carbon when worn and must fit snugly onto the aperture of the facepiece
- 3.10 The cartridge Should not weigh more than 110 gms each with the entire loaded face piece weight not to exceed 300 gms.
- 3.11 The cartridge When attached to the facepiece, the cartridges should in no way cause the facepiece to sag or develop a leak with the face of the user due to its weight.
- 3.12 The Cartridge must be compatible with the facepiece swept back design so as to not hamper/obscure the wearer's vision and must be well balanced, lightweight and comfortable to facilitate continuous usage over one working shift.
- 3.13 The cartridge must have well designed apertures to facilitate easy click on affixation of & removal of cartridges when used with the facepiece.
- 3.14 The cartridges assemblies should be used up to NIOSH approval limits, 10 times PEL for half facepiece or 50 times for full-face piece or the maximum allowable concentration in applicable OSHA standards, whichever is lower.

- 4.0 Sample :- Sample should be got approved before bulk supply.
Sample shall be supplied along with offer.

20.06.19

V.P. 20.06.19

SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED	ABHAI SINGH	SAFETY OFFICER / DY. MGR		31/8/11
CHECKED	JAGAT NARAIN	SAFETY OFFICER /SM. MGR		4/8/11	

INVENTORY NO.	APPROVED BY		RAJIV MAHESWARI SDGM (HSE/FCX)	
	Revision No.	PAGE NO	ITEM CODE ISXW00201979	DATE OF ISSUE

20.06.19
(Karmal Kulkarni)
Safety Officer

146
20.06.19
(V.K. Sathya)
Head (HSE)



PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

FORM DG 49

BHEL/HEEP/HSE/G/05

Rev. No. 00

PAGE 2 OF 2

SIGN. & L

SUPERSEDES
INVENTORY NO.COPYRIGHT & CONFIDENTIAL
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The supplier shall submit documentary proof to confirm that the product supplied is ISI Marked/ NIOSH approved.

6.0 Packing

The respirator shall be packed, supplied individually in suitable case/box. Operating / maintenance/ cleaning manual to be supplied with each respirators

7.0 Inspection

Inspection will be carried out at our works with reference to the technical requirements and Certificates.

8.0 Marking

The system shall be marked with

- c). IS / NIOSH Mark
- d). Supplier identity

9.0 Guarantee Certificate

Guarantee Certificate to be given for any manufacturing defect along with its consignment for free replacement within six month from the date of receipt at our stores.

10. Test certificate! - Test certificate Required as per IS with Bulk supply.

15.07.19

15.7.19

SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED	ABHAI SINGH	SAFETY OFFICER / DY. MGR		3/8/11
CHECKED	JAGAT NARAIN	SAFETY OFFICER / SM. MGR		4/8/11	

INVENTORY NO.		APPROVED BY	DATE OF ISSUE	
		 418	20.06.19	
Revision No.	PAGE NO	ITEM CODE ISXW00201979		

20.06.19
(Karmul Kulkarni)
Safety Officer

20.06.19
(V. K. Saxena)
Head (HSE)

C/6190/299/1142/F

Annexure - C

FORM DG 49

BHEL/HEEP/HSE/G/06

Rev. No. 00 ✓

PAGE 1 OF 2 ✓



PLANT PURCHASING SPECIFICATION HEEP – HARDWAR

DISPOSABLE RESPIRATOR FOR ORGANIC VAPOURS (PAINTS, VARNISHES ETC)

1.0 SCOPE

This Specification covers the requirement of disposable respirator for organic vapour (paints) fume & mist

2.0 Compliance with standards

- 1.0 It shall comply with IS: 9473-2002, IS: 14746-1999/EN-149/NIOSH -N95 Standards.
- 2.0 Authenticated photo copies of the latest test certificates (from OEMs, National Accredited Test Laboratories) to be submitted along with the offer.
- 3.0 Vendor/bidder to furnish authorization letter from Principal/OEM against the enquiry quoted.
- 4.0 Vendor/bidder to submit along with the offer, authenticated copy of latest certificate of product conformity to relevant IS/EN/ANSI standards.
- 5.0 For each PPE specification, the Vendor/Bidder shall confirm their acceptance to the BHEL specifications by Signing and Stamping on it.

3.0 Technical Requirements

1. Molded cup/Oval shape construction to be provided.
2. It shall be suitable to prevent the harmful organic vapor/ fumes /mist and particulate matter of paint, varnishes etc.
3. It shall have filter composed of electrostatic filter media.
4. It shall have minimum 94 % filtration efficiency against the paint/ varnish /vapor / fume/mist and particulate matters.
5. It shall have two head bands made of elastic / polyisoprene & should not cause irritation to the wearer.
6. It shall have adjustable aluminum nose clip, so as to confirm to the nasal contours of the wearer.
7. It should have hypo allergenic foam under aluminum nose clip.
8. The respirator shall be comfortable to wear so that the wearers show no undue sign of strain.

4.0 Sample

Sample should be got approved before bulk supply.

SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER		
	CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER		
INVENTORY NO.			APPROVED BY		
					V.K. SAXENA AGM (HSE)
			ITEM CODE :		DATE OF ISSUE
			ISXW00201987 ✓		20-06-19

20.06.19
(Kamal Kulshrestha)
Safety Officer

131

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



PLANT PURCHASING SPECIFICATION

HEEP – HARDWAR

SIGN. & DATE

SUPERSEDES
INVENTORY NO.

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5.0 Test Certificate ✓

5.1 Supplier shall submit the test certificates for Filtering efficiency.

5.2 The supplier shall submit documentary proof to confirm that product supplied by him comply with IS/EN/NIOSH standard.

6.0 Packing

The Respirator shall be packed suitably to protect from dust & damage.

7.0 Marking

The Respirators shall be marked with the following information.

- IS/EN/NIOSH mark
- Manufacturer Identity.

8.0 Inspection.

Inspection will be carried out at our works with reference to the accepted/approved sample and test reports. BHEL may inspect at works where ever required.

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

INVENTORY NO.

NAME

DESIGNATION

SIGNATURE

DATE

WORKED

KAMAL KULSHRESTHA

SAFETY OFFICER

CHECKED

SIDDHARATH KUMAR

SAFETY OFFICER

APPROVED BY

V.K. SAXENA
AGM (HSE)

ITEM CODE :

ISXW00201987

DATE OF
ISSUE

20-06-19

Done on 20.6.19
(Kamal - Kulshrestha)
Safety Officer

V.K. Saxena
Head (HSE)

C/6190/249/1142/F

Amesdev - 'D'

FORM DG 49

BHEL/HEEP/HSE/G/11 ✓

Rev. No. 01 ✓

PAGE 1 OF 2



PLANT PURCHASING SPECIFICATION

HEEP – HARDWAR

DISPOSABLE RESPIRATOR FOR ACID GASES

1.0 SCOPE

This Specification covers the requirement of disposable respirator for acid gases / Chemical fumes.

2.0 Compliance with standards

- 1.0 It shall comply with IS: 9473-2002, IS: 14746-1999/EN-149/NIOSH -N95 Standards.
- 2.0 Authenticated photo copies of the latest test certificates (from OEMs, National Accredited Test Laboratories) to be submitted along with the offer.
- 3.0 Vendor/bidder to furnish authorization letter from Principal/OEM against the enquiry quoted.
- 4.0 Vendor/bidder to submit along with the offer, authenticated copy of latest certificate of product conformity to relevant IS/EN/ANSI standards.
- 5.0 For each PPE specification, the Vendor/Bidder shall confirm their acceptance to the BHEL specifications by Signing and Stamping on it.

3.0 Technical Requirements.

1. Molded cup/Oval shape construction.
2. It shall be suitable to prevent the harmful acid gases / Chemical fumes.
3. It shall have filter composed of electrostatic filter media.
4. It shall have minimum 94 % filtration efficiency against the acid gases / Chemical fumes.
5. It shall have two head bands made of elastic / polyisoprene & should not cause irritation to the wearer.
6. It shall have adjustable aluminum nose clip, so as to confirm to the nasal contours of the wearer.
7. It should have hypo allergenic foam under aluminum nose clip.
8. The respirator shall be comfortable to wear so that the wearers show no undue sign of strain.

4.0 Sample

Sample should be got approved before bulk supply.

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SIGN & DATE	NAME	DESIGNATION	SIGNATURE	DATE
WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER		15.07.19
CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER		16.07.19
INVENTORY NO.	APPROVED BY			
	V. K. SAXENA AGM (HSE)/CSO			
	Revision No.	PAGE NO	ITEM CODE : ISXW00201995 ✓	DATE OF ISSUE

(Kamal Kulshrestha)
Safety officer

(V.K. Saxena)
Chief Safety officer
Head (HSE)

127

16.7.19



PLANT PURCHASING SPECIFICATION

HEEP – HARDWAR

SIGN. & D.

SUPERSEDES
INVENTORY NO.

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5.0 Test Certificate. ✓

5.1 Supplier shall submit the test certificates for Filtering efficiency.

5.2 The supplier shall submit documentary proof to confirm that product supplied by him comply with IS/EN/NIOSH standard.

6.0 Packing .

The Respirator shall be packed suitably to protect from dust and damage.

7.0 Marking.

The Respirators shall be marked with the following information

- a) IS/EN/ NIOSH mark
- b) Manufacturer Identity.

8.0 Inspection.

Inspection will be carried out at our works with reference to the accepted/approved sample and test reports. BHEL may inspect at works where ever required.

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.

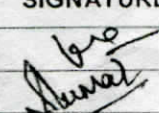
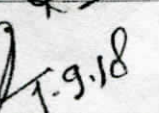
SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER	<i>[Signature]</i>	15-07-19
CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER	<i>[Signature]</i>	18-07-19	
INVENTORY NO.			APPROVED BY		
			V. K. SAXENA AGM (HSE)/CSO	<i>[Signature]</i> 16-7-19	
	Revision No.	PAGE NO	ITEM CODE : ISXW00201995 ✓	DATE OF ISSUE	

[Signature] 16.07.19
(Kamal Kulshrestha)
Safety Officer

[Signature] 16.7.19¹²⁸
(V. K. Saxena)
CSO/ Head (HSE)

C/6190/299/1142/F

Annexure - "E"

SIGN. & DATE		PLANT PURCHASING SPECIFICATION HEEP - HARDWAR		FORM DG 49	
				BHEL/HEEP/HSE/G/07 ✓ Rev. No. 02 ✓ PAGE 1 OF 2	
SUPERSEDES INVENTORY NO.	RESPIRATOR FOR WELDING FUMES				
	1.0 SCOPE This Specification covers the requirement of disposable Respirator for welding fumes with exhalation vent valve. 2.0 Compliance with standards 1. It shall comply with IS: 9473-2002, IS: 14746-1999/EN-149/NIOSH -N95 Standards. 2. Authenticated photo copies of the latest test certificates (from OEMs, National Accredited Test Laboratories) to be submitted along with the offer. 3. Vendor/bidder to furnish authorization letter from Principal/OEM against the enquiry quoted. 4. Vendor/bidder to submit along with the offer, authenticated copy of latest certificate of product conformity to relevant IS/EN/ANSI standards. 5. For each PPE specification, the Vendor/Bidder shall confirm their acceptance to the BHEL specifications by Signing and Stamping on it. 3.0 Technical Requirements. 1. Molded cup/Oval shape construction. 2. It shall be suitable to prevent the harmful welding fumes and particulate dusts. 3. It shall have filter composed of electrostatic filter media. 4. It shall have minimum 94 % filtration efficiency against the welding fumes and particulate Dust. 5. It shall have two head bands made of elastic/ polyisoprene & should not cause irritation to the wearer. 6. It shall have adjustable nose clip, so as to confirm to the nasal contours of the wearer. 7. It should have non allergenic foam under nose clip. 8. The respirator shall be comfortable to wear so that the wearers show no undue sign of strain. 9. It should have high efficient exhalation vent valve. 4.0 Sample ✓ Sample should be got approved before bulk supply.				
SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER		01.09.18
INVENTORY NO.	CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER		01.09.18
			APPROVED BY		
			V. K. SAXENA AGM (HSE)/CSO		
	Revision No.	PAGE NO	ITEM CODE :	DATE OF ISSUE	
			ISXW00204048		

bro
20.6.19
(Kamal Kulshrestha)
Safety Officer

bro
129
20.6.19
(V.K. Saxena)
Head (HSE)



PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

FORM DG 49

BHEL/HEEP/HSE/G/07

Rev. No. 02

PAGE 2 OF 2

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SUPERSEDES
INVENTORY NO.

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Suppliers shall submit the test certificates for Filtering efficiency.

5.1 The supplier shall submit documentary proof to confirm that product supplied by him comply with IS/EN/NIOSH standard.

5.0 Packing .

The Respirator shall be packed suitably to protect from dust and damage.

6.0 Marking.

The Respirators shall be marked with the following information

- a) IS/EN/NIOSH mark
- b) Manufacturer Identity.

8.0 Inspection.

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

WORKED

NAME
KAMAL KULSHRESTHADESIGNATION
SAFETY OFFICER

SIGNATURE

DATE

CHECKED

SIDDHARATH KUMAR

SAFETY OFFICER

SIGNATURE

01.09.18
01.09.18

INVENTORY NO.

APPROVED BY

V. K. SAXENA
AGM (HSE) /CSOV.K. Saxena
1.9.18

Revision No.

PAGE NO

ITEM CODE :

DATE OF
ISSUE

ISXW00204048 ✓

20.06.19
(Kamal Kulshrestha)
Safety officer

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

C/6190/2079/11421 F

Annexure - F

FORM DG 49

BHEL/HEEP/HSE/G/01

Rev. No. 00

PAGE 1 OF 2

SIGN. &
DATE

PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

DISPOSABLE DUST MASK

1.0 SCOPE

This standard covers the requirement of Disposable Dust mask.

2.0. COMPLIANCE WITH STANDARDS

It shall comply with relevant Indian standard, if any.

3.0 TECHNICAL REQUIREMENT

3.1 It should have a very fine filter layer of textile fibers covered with 0.4 mm thick (± 0.1 mm) non-woven bonded fabric made-up of polypropylene/ polystyrene/ polycarbonate/ polyethylene or polyester etc. in light green colour on front side and mask should be suitable for protection from Dust.

3.2 It shall be rectangular in shape and size should be 100mm X 180 mm (± 5 mm) with three over lapping fold each 20 mm wide (length wise) at breathing zone as shown in fig.

3.3 The mask should filter 5 microns size particles with 95% efficiency and its breathing resistance should be low.

3.4 It should have two number 2 mm dia elastic band of sufficient strength & of good quality for holding mask in position without discomfort on ears.

3.5 It should have one number adjustable nose clip of length 90mm (± 5 mm), width min. 3mm (± 0.1 mm) and thickness 0.5 mm (± 0.05 mm) so as to conform to nasal contours of the wearer and to provide comfort & secured seal.

4.0 **SAMPLE:** Sample should be got approved before bulk supply.
~~Sample shall be supplied along with technical offer for approval.~~

20.06.19

20-6-19

SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED BY	DEEN DAYAL	ASSTT. ENGR. (HSE)	Deen Dayal	29/10/16
	CHECKED BY	ABHAI SINGH	SR. MANAGER (HSE)	Abhai Singh	29/10/16
INVENTORY NO.	REF.: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT NASAL PROTECTION		APPROVED BY		
	Revision No.	Revision No.	ITEM CODE ISXW00206024		DATE OF ISSUE
	00	132			

V K SAXENA
AGM (HSE)

20.06.19
(Kamal Kishore)
Safety Officer

20.06.19
(V.K. Saxena)
Head (HSE)



PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

FORM DG 49

BHEL/HEEP/HSE/G/01

Rev. No. 02

PAGE 2 OF 2

SUPERSEDES
INVENTORY NO.

5.0 PACKING:

The mask shall be packed & supplied in polythene cover (each packet containing 50 pcs.) for protection from dust and damage.

6.0 INSPECTION

Inspection will be carried out at our works with reference to the accepted/approved sample and test reports. BHEL can inspect material at vendor's works where ever required.

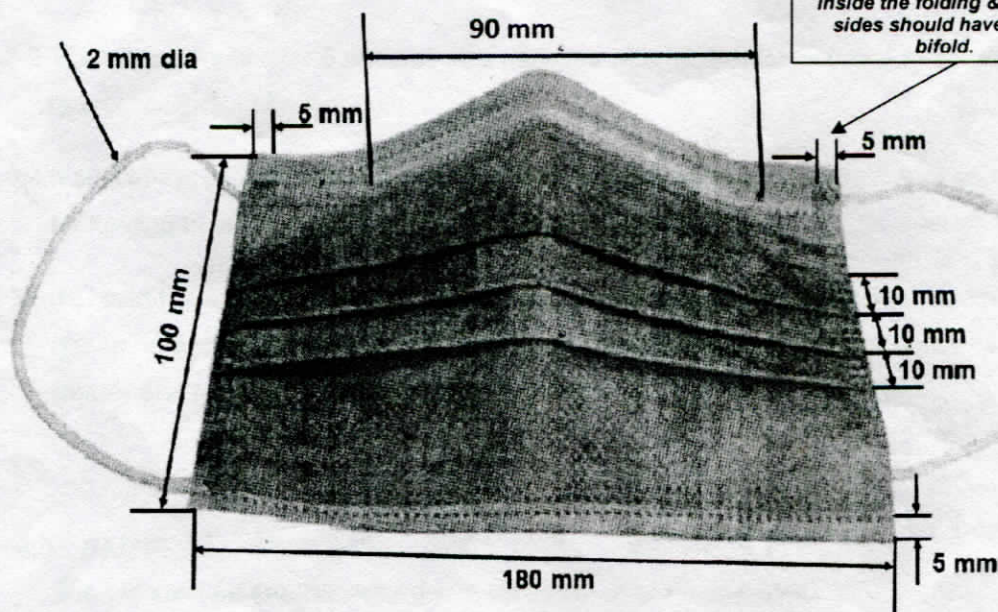
7.0 GUARANTEE CERTIFICATE. ✓

Guarantee certificate will be given by party along with consignment (regarding quality of material & workmanship) for free replacement within Six months from the date of receipt at stores if material is not found O.K. during use at shop floor.

80 Text certificate:- Text certificate is required as per JS with bulk supply. 20.06.19

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Elastic should be min. 5 mm inside the folding & all four sides should have 5mm bifold.

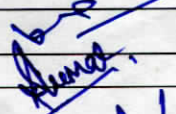
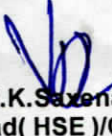
SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED BY	DEEN DAYAL	ASSTT. ENGR. (HSE)	<i>Deen Dayal</i>	29.10.16
	CHECKED BY	ABHAI SINGH	SR. MANAGER (HSE)	<i>Abhai Singh</i>	29.10.16
INVENTORY NO.	REF.: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT NASAL PROTECTION		APPROVED BY		<i>V.K. Saxena</i> 29.10.16 V.K. SAXENA AGM (HSE)
	Revision No,	PAGE NO	ITEM CODE		DATE OF ISSUE
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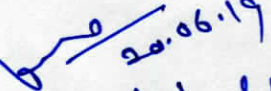
20.06.19
(Kamul Bhalshrestha)
Safety Officer

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

C/6190/2019/1142/F

Annexure - 4 "

SIGN. & DATE		PLANT PURCHASING SPECIFICATION HEEP - HARDWAR		BHEL/HEEP/HSE/G/10 ✓	
				Rev. No. 00 ✓	
SUPERSEDES INVENTORY NO.		FIBER FILTER DUST MASK		PAGE 1 OF 1	
COPYRIGHT & CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited.		1.0 Scope This Specification covers the requirement of Fiber Filter Dust Mask (For Dust & Mist)			
		2.0 Compliance with Standards It shall comply with relevant Indian standard, if any.			
		3.0 Technical Requirement			
		3.1. It shall be made-up of Permacel paper suitable for protection from Dust & Mist . 3.2. It shall be foldable type suitable for use covering nose and mouth. 3.3. It shall be composed of two layers. The outmost layer shall filters out the largest dust particles and the innermost layer shall be composed of electrostatic filter media, which is capable of filtering the finest particles. 3.4. It shall have high filtration efficiency and low breathing resistance. 3.5. It shall have the adjustable elastic band and shall have a very good elastic retention properties. 3.6. It shall have adjustable aluminum nose clip so as to conform to nasal contours of the wearer and to provide comfort & secured seal.			
		4.0 Sample ✓ Sample should be got approved before bulk supply.			
		5.0 TEST CERTIFICATE: ✓ Supplier shall submit the test certificates along with the bulk supply .			
		6.0 PACKING: The mask shall be packed & supplied in polythene cover for protection from dust and damage.			
		7.0 Inspection will be carried out at our works with reference to the PO Specification , approved sample .			
		8.0 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.			
SIGN &		NAME	DESIGNATION	SIGNATURE	DATE
		WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER	
		CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER	
INVENTORY NO.		REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT NASAL PROTECTION		APPROVED BY	
				 V.K. Saxena AGM/Head(HSE)/CSO	
		Revision No.	PAGE NO	ITEM CODE	DATE OF ISSUE
		00	132	ISXW00208132 ✓	20-06-19


 (Kamal Kulshrestha)
 Safety Officer


 (V.K. Saxena)
 Head (HSE)