

**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 -20190234

The Vendors meeting following criterion would be considered :-

1. Vendor should be Manufacturer Or their authorized dealer, Distributer ,
supplier of Items Safety Harness, PVC Suit , Apron, fall Arrester , or
Leather & Leather Related Product or Protective Cloths or safety
products.
2. Authorized dealer, Distributer, Supplier should submit the
authorization letter from their concerned Manufacturer

Head/AGM (HSE)


Kamal Kulshrestha
Safety Officer

C/6190/2019/1141/F

Item No - 1

Annexure - B

FORM DG 49

BHEL/HEEP/HSE/F/05 /

Rev. No. 00 ✓

PAGE 1 OF 2

SIGN & DATE

SUPERSEDES
INVENTORY NO.

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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

PVC SUIT (ACID/ALKALI PROOF)

1.0 Scope

This Specification covers the requirements of PVC Suit.

2.0 Compliance with Standards

It shall comply with relevant standard if any.

3.0 Technical Requirements

1. It shall be made of Acid and Alkali proof PVC material, uniform in thickness of 1mm, free from pin holes, air bubbles to assure long life and resistance to peeling, cracking, tearing and ageing.
2. Each PVC suit will consist of a coat, a pant & a transparent hood permitting clear vision. There will be provision of elastic in trouser for tightening it at the waist portion.
3. It should be ergonomically designed for comfort on wearing & having loose fitting. It should also have minimum 16 nos ventilator breathers of 10mm dia. each with protective flaps for air circulation.
4. It shall give protection against acid, alkali, oil, water etc.
5. It shall be Grey in colour.
6. It shall have nonconductive buckles & buttons to ensure total protection.
7. Over buttoned portion on coat there should be a 10 cm wide protective flap with Velcro arrangement with nylon strip along with the border. The nylon border should be on the inner side of the flap.
8. Miyani should be provided in trouser to make it more comfortable and to increase its life.

SIGN &
DATE

WORKED

NAME

KAMAL KULSHRESTHA

DESIGNATION

SAFETY OFFICER

SIGNATURE

DATE

14.08.18

CHECKED

SIDDHARATH KUMAR

SAFETY OFFICER

16.08.18

INVENTORY NO.

APPROVED BY

V K Saxena
Head (HSE) /CSO
ITEM CODE
ISXW0020093DATE OF
ISSUE

20.06.19

(Kamal Kulshrestha)
Safety Officer

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

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PLANT PURCHASING SPECIFICATION

HEEP – HARDWAR

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SUPERSEDES INVENTORY NO.

Dimensions in mm

COAT			Pant				
Chest	Back Length (Neck to bottom)	Sleeve Length under arm	Length	Length Miyani to Bottom	Waist (circumferences)	Bottom Width (Mori) (circumferences)	Thigh (circumferences)
1325	800	450	1050	620	1250	540	600

4.0 Sample ✓

Sample should be got approved before bulk supply.

5.0 Packing

The PVC Suit shall be dusted with Talcum powder and packed individually for protection from dust and damage.

6.0 Marking

The PVC Suit shall be marked with the following information

- BHEL Logo.
- Supplier Identity/ manufacture's name/brand name..
- Date & Year of manufacturing.

7.0 Inspection

Inspection will be carried out at our works with reference to the test reports. BHEL may inspect at supplier's works where ever felt necessary.

8.0 Guarantee Certificate ✓

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

9.0 ✓ **Test Certificate**:- Test certificate required as per IS (if any) with Bulk supply. *16.07.19* *16.7.19*

SIGN & DATE

	NAME	DESIGNATION	SIGNATURE	DATE
WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER	<i>[Signature]</i>	14.08.18
CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER	<i>[Signature]</i>	16.08.18

INVENTORY NO.

APPROVED BY

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Head (HSE) /CSOITEM CODE
ISXW00200093DATE OF
ISSUE

16.07.19
(Kamal Kulshrestha)
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16.07.19
(V.K. Saxena)
Head (HSE)

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SIGNATURE & DATE		BHEL/HEEP/HSE/F/07 ✓																
		Rev. No. 01 ✓																
		PAGE 1 OF 3																
SIGNATURE & DATE		 PLANT PURCHASING SPECIFICATION HEEP - HARDWAR																
SUPERSEDES INVENTORY NO.		<u>LEATHER APRON</u>																
COPYRIGHT & CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Ltd. It must not be used directly or indirectly in any way detrimental to the interest of the co.		1.0 Scope This standard covers the requirements of Leather Apron.																
		2.0 Compliance with Standards It shall comply with IS: 6153 - 1971 Amendment 01 1998.																
		3.0 Technical Requirement																
		1. It shall be made up of chrome tanned cow grain leather. 2. The leather used for the apron shall be smooth, uniform in texture. It shall be resilient and pliable, free from cuts, holes and loose flashes. 3. The outer surface of apron shall be of full grain and smooth finished and shall have uniform thickness of not less than 1mm. 4. The apron shall be in one piece and no joints are allowed. 5. It shall give protection from radiant splashing of hot object like welding slag, grinding chips etc. 6. It shall have Straps and Buckles with adjuster for fastening. One at the back level and another one at the waist level. 7. The buckles shall be Nickel plated/ powder coated. 8. The size of the apron shall be as given below of type 3A (Full skirt type) of above mentioned IS.																
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. MANAGER</td> <td><i>Abhai Singh</i></td> <td>17/4/11</td> </tr> <tr> <td>CHECKED</td> <td>JAGAT NARAIN</td> <td>SAFETY OFFICER / SR. MGR.</td> <td><i>Jagat Narain</i></td> <td>17/3/11</td> </tr> </tbody> </table>			NAME	DESIGNATION	SIGNATURE	DATE	WORKED	ABHAI SINGH	SAFETY OFFICER / DY. MANAGER	<i>Abhai Singh</i>	17/4/11	CHECKED	JAGAT NARAIN	SAFETY OFFICER / SR. MGR.	<i>Jagat Narain</i>	17/3/11
	NAME	DESIGNATION	SIGNATURE	DATE														
WORKED	ABHAI SINGH	SAFETY OFFICER / DY. MANAGER	<i>Abhai Singh</i>	17/4/11														
CHECKED	JAGAT NARAIN	SAFETY OFFICER / SR. MGR.	<i>Jagat Narain</i>	17/3/11														
INVENTORY NO.		REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT BODY PROTECTION APPROVED BY <i>Rajiv Maheshwari</i> RAJIV MAHESHWARI SDGM (FCX / HSE)																
Revision No.		ITEM CODE																
00		ISXW00200549																
PAGE NO		DATE OF ISSUE																
56																		

20.6.19
 (Kamal Kulkarni)
 Safety Officer

20.6.19 115
 (V.K. Satena)
 Head (HSE)



PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

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Sl. No	Size	Length(mm)	Width(mm)
1	Medium	900	600
2	Large	990	660
3	Extra Large	1070	760

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

1. Leather quality
2. Physical and Chemical Properties as per IS.

5.2 The test certificate shall also indicate the following.

- a. P.O. Number
- b. Batch No. & date

6.0 **Packing**

The apron shall be packed individually for protection from dust and damage.

7.0 **Marking**

The apron shall be marked with the following information

- a. BHEL Logo.
- b. Supplier Identity/ manufacture's name/brand name..
- c. Date & Year of manufacturing.

SIGN &
DATE

INVENTORY NO.

NAME	DESIGNATION	SIGNATURE	DATE
WORKED ABHAI SINGH	SAFETY OFFICER / DY. MANAGER	Abhai Singh	17/4/11
CHECKED JAGAT NARAIN	SAFETY OFFICER / SR. MGR.	Jagat Narain	13/2/11
REF: CORPORATE STANDARD FOR PERSONAL PROTECTIVE EQUIPMENT BODY PROTECTION		APPROVED BY RAJIV MAHESHWARI SDGM (FCX / HSE)	
Revision No.	PAGE NO	ITEM CODE	DATE OF ISSUE
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PLANT PURCHASING SPECIFICATION

HEEP - HARDWAR

SIGN. & DATE

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INVENTORY NO.

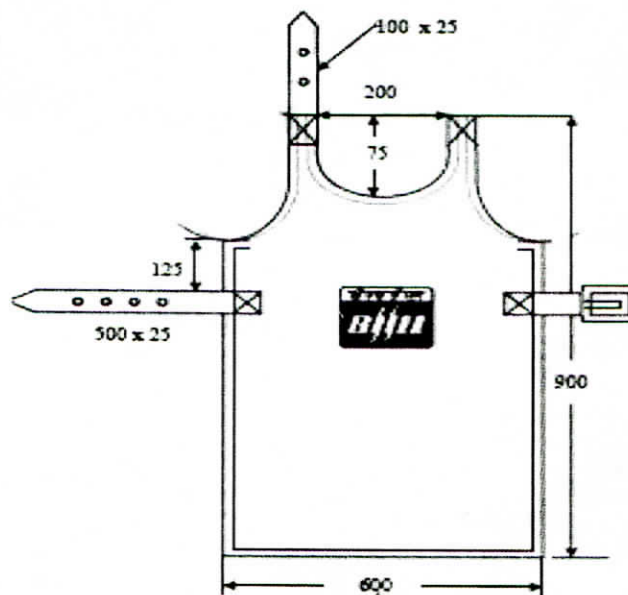
8.0 Inspection

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 within Six months from the date of receipt at stores.

LEATHER APRON



(All dimensions are in mm)

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CHECKED	JAGAT NARAIN	SAFETY OFFICER / SR. MGR.	Jagat Narain	12/12

INVENTORY NO.

REF:
CORPORATE STANDARD FOR
PERSONAL PROTECTIVE EQUIPMENT
BODY PROTECTION

APPROVED BY

21/12/2012

RAJIV MAHESHWARI
SDGM (FCX / HSE)

Revision No.

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Safety officer

20.6.19
(V. P. Satena)
Head (HSE)



PLANT PURCHASING SPECIFICATION

HEEP - HARDWAR

CANVAS APRON

1.0 Scope

This specification covers the requirements of Canvas Apron.

2.0 Compliance with Standards

It shall comply with IS: 6153 - 1971, IS 2573 - 1986 & IS - 1920 - 1987.

3.0 Technical Requirement

1. It shall be made up of Canvas as per the IS 2573 - 1986 Type-II, (weight 410 GSM $\pm$ 20.5 g.) of natural colour.
2. The recommended minimum dimensions of Full skirt type aprons are given on Page 3 of 3.
3. The canvas used for the apron shall be smooth & uniform in texture. After stitching unwanted material shall be trimmed off from inside.
4. The cotton sewing thread conforming to Variety No. 23 shall be used.
5. The apron shall be machine stitched and number of stitch should be 5 per cm.
6. The apron shall be in one piece and no joints are allowed.
7. It shall have Straps and Buckles with adjuster for fastening. One at the back level and another one at the waist level as per dimension shown in fig. on page 3 of 3.
8. The buckles shall be Nickel plated/ powder coated.
9. The periphery or sides shall be stitched after double folding.
10. It shall be of good appearance and good quality.
11. Tolerance in dimension - $\pm$ 10 mm in Length and width and $\pm$ 5mm in other dimensions.

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	WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER		
INVENTORY NO.	CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER		
			APPROVED BY		
	Revision No.	PAGE NO	ITEM CODE ISXW00200891	DATE OF ISSUE 20-06-19	

(Kamal kulshrestha)
(Safety Officer)

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PLANT PURCHASING SPECIFICATION

HEEP - HARDWAR

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4.0 Sample ✓

1. The supplier will have to submit sample of fully stitched apron for approval before bulk supply.

5.0 Packing

The apron shall be packed individually for protection from dust and damage.

6.0 Marking

The apron shall be marked with the following information

- a. BHEL Logo.
- b. Supplier Identity/ manufacture's name/brand name.

7.0 Inspection

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

9.0 ✓ Test Certificate:- Test certificate required as per IS with bulk supply.

16.7.19

16.9.19

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)		
	Revision No.	PAGE NO	ITEM CODE ISXW00200891		DATE OF ISSUE 20-06-19

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SIGN: & DATE

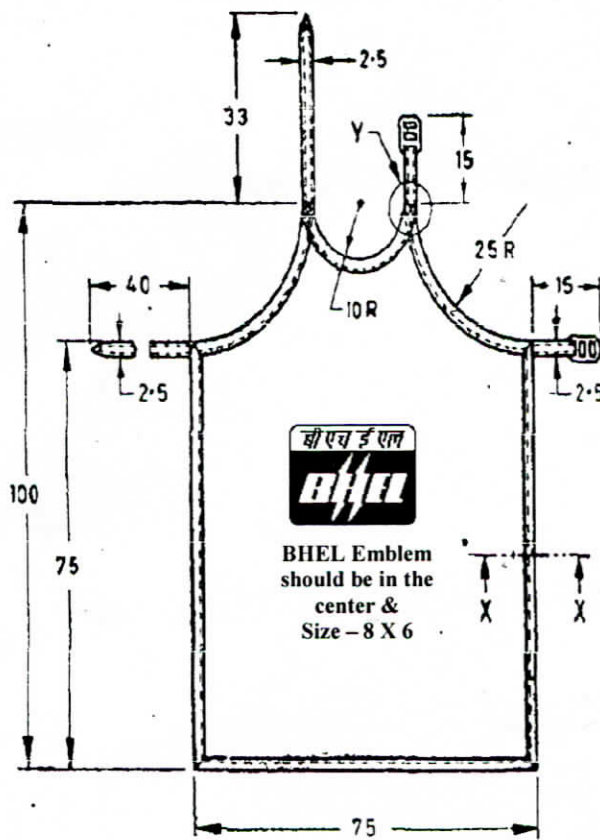
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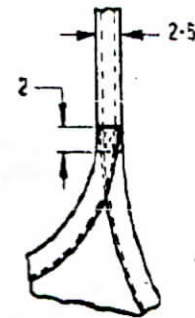
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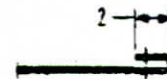
HEEP - HARDWAR



All dimensions in centimetres.



DETAIL AT Y



ENLARGED SECTION XX

CANVAS APRON

SIGN & DATE	NAME		DESIGNATION	SIGNATURE	DATE
	WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER	<i>[Signature]</i>	
INVENTORY NO.	CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER	<i>[Signature]</i>	
	APPROVED BY		V.K. SAXENA AGM (HSE)		
	Revision No.	PAGE NO	ITEM CODE ISXW00200891	DATE OF ISSUE 20-06-19	

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20.06.19
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SIGN. & DATE		SIGNATURE		DATE	
WORKED		ABHAI SINGH	SAFETY OFFICER / DY. MGR	Abhai Singh	08/08/09
CHECKED		V.K. SAXENA	CHIEF SAFETY OFFICER/SR.MGR	V.K. Saxena	08/08/09
INVENTORY NO.		APPROVED BY		AJEET KUMAR SHARMA DGM (HSE)	
Revision No.		PAGE NO		ITEM CODE ISXW00201162	
				DATE OF ISSUE	

PLANT PURCHASING SPECIFICATION
HEEP - HARDWAR

RETRACTABLE TYPE FALL ARRESTER - 5 M

1.0 Scope
This standard covers the requirement of Retractable Type Fall Arrester - 5 M

2.0 Compliance with Standards
It shall comply with EN 360.

3.0 Technical Requirement

3.1 Technical Specs :

- a) Width : 140 mm
- b) Height : 460 mm
- c) Thickness : 85 mm

3.2 Mechanical characteristics:

- a) Breaking strength : 15 kN
- b) Breaking force: Max. 6 kN
- c) Breaking distance : 0.5 m
- d) Weight : 2.7 kgs $\pm$ 500 grms.
- e) Casing of Material : Aluminum
- f) Life line : Webbing (25mm)
- g) Connector: Steel screw gate carabineer.

3.3 Details of Connector -

- a) Weight : 330 gms.
- b) Dimension : 173 mm x 60.5 mm x 22 mm
- c) Breaking load : 20 KN
- d) Opening : 21 mm
- e) Material: Round steel zinc.
- f) Connector : Steel swivels eye, double locking snap hook & fall indicator,

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Safety officer

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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

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- FALL INDICATOR on the connector attached to the harness. Any stress greater than 3kN causes a red ring to appear on the eye indicating there is a fall on the unit.

- Free movement over 5 mtrs vertical.

4.0 Sample ✓

Sample shall be got approved before bulk supply.

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/EN/CE. One set of test certificates will be required along with dispatch documents and the other along with supply of the equipment.

6.0 Guarantee: ✓

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

7.0 Document and Literature:

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

8.0 Packing and Dispatch:

The equipment /accessories shall be suitably packed.

SIGN &
DATE

INVENTORY NO.

NAME

DESIGNATION

SIGNATURE

DATE

WORKED

ABHAI SINGH

SAFETY OFFICER / DY. MGR

Abhai Singh

08/08/09

CHECKED

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08/09/09

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PLANT PURCHASING SPECIFICATION HEEP - HARDWAR

FULL BODY SAFETY HARNESS

1.0 Scope

This specification covers the requirements of nylon full body safety harness.

2.0 Compliance with Standards

It shall comply with IS: 3521 - 1989 Reaffirmed 2014.

3.0 Technical Requirement

3.1 It shall be of Class "A" type (Fall Arresting) of the IS referred above.

3.2 It shall consist of fully adjustable waist belt, shoulder belt, thigh belt, lanyard and anchoring components.

3.3 The shoulder and waist belt shall be made out of Nylon / polyester / synthetic Webbing of width of 40.0 mm and 3.0 mm thick provided with permanent ISI marking.

3.4 The lanyard shall be of 3.0 mtrs. Length.

3.5 One end of the rope shall be directly spliced and the other end shall be thimble and spliced to a hook.

4.0 Sample should be got approved before bulk supply.

5.0 ✓ The supplier shall submit the test certificates along with the bulk supply as per IS for Strength Test, Flammability Resistance Test, Performance Test, Static and Dynamic Load.

6.0 The Safety Harness shall be packed in individual polythene bags to prevent dust and damage.

7.0 The Safety Harness shall be marked with Supplier Identity/ manufacture's name/brand and Month & Year of manufacturing.

8.0 Inspection will be carried out at our works with reference to the IS and test reports. BHEL may inspect at supplier's work if felt necessary.

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 defect is found out.

SIGN & DATE

	NAME	DESIGNATION	SIGNATURE	DATE
WORKED	KAMAL KULSHRESTHA	SAFETY OFFICER		14.08.18
CHECKED	SIDDHARATH KUMAR	SAFETY OFFICER		16.08.18

INVENTORY NO.

REF:
CORPORATE STANDARD FOR
PERSONAL PROTECTIVE EQUIPMENT
BODY PROTECTION

APPROVED BY

V. K. Saxena
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