



SECTION – V

TECHNICAL SPECIFICATION

ANNEXURE-P – FOR ALL SOR ITEMS EXCEPT ITEM SL. NO. 8 & 18
ANNEXURE-Q – FOR SOR ITEM SL. NO. 8 & 18



LIST OF PPE'S

Sn	Material Code	Item
1.	9512080023	Boiler suit, cotton cloth overall with bright coloured cloth with BCPL logo at back & pocket
2.	9512160013	PVC/chemical full body suit
3.	9512090023	Intrinsic safety torch with dry cell/rechargeable
4.	9508010013	Goggles splinter proof type for protecting against flying particles, having side ventilation
5.	9510070023	Hand gloves, cotton polka dots
6.	9522010033	Wind sock cloth
7.	9520040013	Gum boot
8.	951610043	Safety Belt
9.	9522130013	Fire Blanket
10.	9504010013	Face Shield 14*9 IN
11.	9599990013	Barricading Tape
12.	9510070013	Gloves Hand Cotton
13.	9508040013	Goggles Splash Proof
14.	9514060013	Dust Mask
15.	9541500193	Tube Discharge with Horn 4.5 Kg Co2 Extinguisher
16.	9540500693	DCP Discharge tube for 50 Kg Extinguisher
17.	9540500703	DCP Discharge tube for 75 Kg Extinguisher
18.	9502010033	Safety Helmet - Blue
19.	9541500133	Connecting tube from Co2 Cylinder to DCP cylinder for 25kg,50 kg and 75 Kg extinguisher
20.	9541500533	DCP Discharge tube for 25 Kg Extinguisher
21.	9504030013	Welding Face Shield (Face Protection at the time of Welding)



ANNEXURE-P – FOR ALL SOR ITEMS EXCEPT ITEM SL. NO. 8 & 18

SPECIFICATION FOR THE PPE'S	
SR.	PARTICULARS
1.	<u>BOILER SUIT, COTTON CLOTH OVERALL WITH BRIGHT COLOURED CLOTH WITH BCPL LOGO AT BACK & POCKET (MATERIAL CODE:- 9512080023)</u>
a)	Material for the Boiler Suit: Cotton thick drill cloth having maximum cotton content and finished weight of around 240 grams per square meter.
b)	The fabric / cloth of the Boiler Suit shall have a suitable approval / test certificate for Flame Resistance / Heat Resistance. Copy of the certificate to be sent along with the offer
c)	One piece full body length cover all full sleeve suit, shall be suitable for six feet tall healthy person.
d)	Boiler Suit shall be provided with collar.
e)	The Boiler Suit shall be doubly stitched at seams and reinforced at stress points.
f)	The Boiler Suit shall be provided with two numbers of double stitched front pockets at the chest and two cross pockets in the pant area.
g)	The Boiler shall be provided with full sleeves and cuff of the sleeves shall be provided with elastic. The Boiler Suit shall have elastic around waist.
h)	Full length nonmetallic two way zipper upto dividing portion of leg, the zip covered with verlco strip.
i)	Colour: Photo luminescent Orange - Bright yellow.
j)	Shall have BCPL Logo printed multi-colour through screen printing or by some other suitable means. Size of logo at front (2 inch X 2 inch) and back (10inch X 10 inch)
k)	Boiler Suit to be supplied in Size: Small (S)- 30, Medium (M)-70, Large (L)-90, Extra Large (XL) -90 &, Extra Extra Large (XXL)-20
l)	 Indicative Picture for illustration:-
m)	BCPL LOGO:- 
n)	Bidder shall submit sample (Cloth sample), suitable size should be send.



2.	PVC/CHEMICAL FULL BODY SUIT (MATERIAL CODE:- 9512160013)
a)	The suit should extremely soft, lightweight coverall designed with attached hood for protection against hazardous chemical splash
b)	The suit is certified for Type 3, Type 4 & Type 5 protection to EN 14605 and EN 13982-1 respectively.
c)	The suit is certified to be used in Ex-Zone (Explosive Environment) making it absolutely safe for use in industries such as petro chemicals, refineries, etc., where static charges are concern and explosive environment exists
d)	The suit is made from triple layered fabric having good mechanical strength and higher chemical resistance.
e)	The suit is liquid tight.
f)	The suit is designed with double overlapping zip arrangement for complete chemical protection.
g)	The sleeve's is provided with double cuff design to enable a liquid tight protection when used along with chemical gloves.
h)	The suit is provided with fully elasticated hood, ankles and wrists, to maximize comfort and protection
i)	The suit is ultrasonically welded offering complete protection as well as better mechanical strength at joints
j)	The suit offers wide range of chemical resistance (Please check the chemical chart for reference).
k)	The suit is certified to Type 3 certification to EN 14605 for liquid tight suit
l)	The suit is EN 14126 certified for protection against infecting agents such as SAARS & other Air / Blood Borne micro-organisms
m)	The suit is EN 1073-2 certified to Class-1 protection against Radioactive particulates
n)	The color of the suit is bright yellow.
o)	The suit is available in S, M, L & XL size as per BCPL requirement
p)	The suit should be made from soft and flexible material made from multi-layered fabric that combines an effective chemical barrier with softness, flexibility and remarkably light to the wearer.
q)	The suit should be antistatic and tested to EN 1149-1 .
r)	Colour – Yellow /orange / blue
	APPROVALS:
	APPROVAL The suit should CE certified to - • EN 1073-2 Barrier to radioactive particulates- Class 1 • EN ISO 13982-1 Dry Particulate – Type 5 certification • EN 14605 – for Liquid tight protection - Type 3 certification • EN 14605 – for Spray tight protection - Type 4 certification • EN 14126 – Protection against infecting agent • EN 1149-5 Anti-static
	Chemical Suit to be supplied in Size: Small (S)- 20, Medium (M)-30, Large (L)-70, Extra Large (XL) -50 &, Extra Extra Large (XXL)-30
	A copy of approval /EN certificate shall be submitted with the offer.



3.	<u>INTRINSIC SAFETY TORCH WITH DRY CELL/RECHARGEABLE (Material Code :- 9512090023)</u>
a)	The safety torch shall be intrinsically safe type for use in hazardous area i.e. Class 1, Division 1, Group A B C D or Ex ia/ib IIB/IIC T3 or higher safety rating. It shall be ATEX/CSA/IECEX/UL / PESO approved for safety rating/hazardous area use.
b)	Copy of valid safety approval certificate ATEX/CSA/IECEX/UL/PESO shall be sent along with the offer and supply.
c)	The High Power LED light output shall be more than 160 lumens.
d)	The lens shall be of <i>Crystal clear Polycarbonate</i> Material
e)	The safety torch should be <i>dry cell / alkaline/ Rechargeable</i> .
f)	Battery Run Time : Min 6 hrs
g)	LED Safety Torch powered from rechargeable battery /alkaline/dry cell.
h)	It should be light weight, ergonomic design and have impact resistance, electrostatic non-hazardous thermoplastic / HDPE or equivalent enclosure.
i)	It shall have ingress protection rating of <i>IP65/IPX5</i> or high.
j)	Bidder shall send the literature for offered model, manufacturer's detailed catalogue/literature in respect of above requirement along with the offer.
4.	<u>GOGGLES SPLINTER PROOF TYPE FOR PROTECTING AGAINST FLYING PARTICLES, HAVING SIDE VENTILATION (MATERIAL CODE :- 9508010013)</u>
a)	Safety goggle should be of polycarbonate with excellent protection against flying object. It should have clear lens with good abrasion resistance and UV protection (more than 99%).
b)	It should have soft nose bridge with 180 degree distortion free vision and flexible frame for close snug fit on both large and small faces.
c)	It should be certified for optical class-1, mechanical strength- F and above, resistance to liquid and dust (as additional), shade- 1.2 or above as per EN: 166, UV filter as per EN: 170 and marked accordingly.
d)	Information Brochure / catalogue to be supplied along with offer.
e)	Copy of the EN approval / CE certificates to be submitted along with the offer and supply.
5.	<u>HAND GLOVES, COTTON POLKA DOTS (Material Code :- 9510070023)</u>
a)	Size : 10 inch minimum
b)	Hand Gloves must be of four finger and thumb type, with proper fitting on palm, with flexibility and dexterity
c)	The Hand Gloves shall be made of tight knitted cotton of free size in nature, shall fit to any size of palm made with good workmanship.
d)	The mater of the Hand Gloves shall not cause irritation / adverse effect to the skin
e)	The Hand Gloves shall of such a type the threads shall not open, integrity of the gloves remain
f)	The Hand Gloves shall have polka / polymer dots or polyurethane supported which shall not easily remove.



g)	Industrial Safety Gloves as per latest BIS/IS specification
h)	Indicative Picture for illustration:- 
6.	<u>WIND SOCK CLOTH (Material Code:- 9522010033)</u>
a)	Wind sock hood to be made up of good quality PP/PU coated cloth, having alternate red and white strip.
b)	Length 2400 mm (600 mm diameter)
c)	The larger diameter of wind sock shall be provided with sufficient number of plastic button eyelets for proper fitting to ring of wind sock stand with rope. A sufficient length (about 2 meter) nylon rope shall be provided for tying wind sock hood on the ring.
d)	The wind sock hood shall also have sufficient numbers (at least two) and suitable size (1-2 inch) fluorescent strip around or along the length of sock for easy identification on illumination.
e)	Windsock - Wind cone for Industrial use
f)	Indicative Picture for illustration:- 
7.	<u>GUM BOOT (Material Code :- 9520040013)</u>
a)	The gum boots shall be full size, BLACK colour and made from High Quality Virgin Rubber / PVC
b)	It shall be provided with <i>inner cotton lining</i> up to knee.
c)	It should be acid & alkali resistant.
d)	Gum boot of reputed brand
e)	Height of gum boot: minimum 356 (14.0 inch).



f)	Toe : With Steel Toe Cap (200 Joule)
g)	Toe Specification: Certified Steel Toe Cap used
h)	It must be complied with ISO20347:2004
	Approval:
a)	ISI marked, DGMS approved.
b)	Sizes & qty of gum boots shall be (size 5 -05 nos.) (Size 6 -05 nos.) (Size 7 -10 nos.) (Size 8 - 10 nos.) (Size 9 -10 nos.) (size 10 -10 nos.)
c)	Guarantee /warrantee certificate – 01 (One) Year from the date of acceptance of supply.
d)	The detailed in offer make model of Gum boot clearly to be mentioned.
e)	Bidder shall submit catalogue/photos and literature of the product offered for evaluation purpose.
8.	<u>SAFETY BELT, DOUBLE LANYARD SCAFFOLD HOOK</u> <u>(Material Code :- 9516010013) – Specification As per Annexure-Q</u>
9.	<u>BLANKET FOR WELDING SPARK AND MOLTEN PROTECTION, NON</u> <u>ASBESTOS (Material Code:-9522130013)</u>
a)	The fire blanket shall be designed for protection from molten metals during welding and gas cutting. It should be free from asbestos or its derivatives. It should be made up of woven silica fabric. Silica fibres content more than 90%.
b)	The blanket shall be rated for 950 degree celcius (constant temperature) or more and melting point around 1650 degree celcius. It should not burn. Vendor should send necessary performance certificate from reputed agency/lab as regards service temperature, flame propagation, thermal conductivity, abrasion etc. with the offer and material.
c)	The blanket should be lightweight. Weight: 1300 GSM (approx.); Thickness: 1.4 mm (approx.); Size: 6 feet x 5.8 feet = 35 Sq. feet (approx.), Appearance/colour: light colour (e.g. white, pale white, tan, milky cream etc.)
d)	The blanket edges should be well finished and stitch by fire resistance material like kevler or equivalent material. Three eyelets should be provided on each side along with fire resistance rope for trying to objects.
e)	Sample piece (cloth) should be send along with the offer for evaluation.
10.	<u>FACE SHIELD (Material Code :- 9504010013)</u>
a)	It must be designed & have EN/ANSI/DIN approval.
b)	Full cover face shield with crown and chin guard, sweat band, fully adjustable, ratchet type adjustable head band.
c)	No metal parts shall be used during manufacturing.
d)	The face shield shall be designed to provide protection to the face (i.e. the front of head including forehead, eyes, cheeks, nose, mouth and chin) and neck, when required protection from flying objects and splash of hazardous liquid & slag.
e)	Face shield should be made out of optically clear / <i>crystal clear polycarbonate/equivalent material</i> and shall be Class 1 certified and with frame marked A/B for protection against medium impact as per EN 166 .
f)	Visor shall have anti-scratch coating.



g)	Face shield shall have mechanical strength, lightweight & ergonomically design and shall be non-irritating to the skin.
h)	Face shield shall be compatible with different BIS marked hard hats/Industrial Helmets.
i)	Face shield shall consist of headgear including an adjustable headband, durable tilting visor support with / <i>without</i> crown protector, removable replaceable & washable sweatband.
j)	Headband/headgear shall be fabricated of good grade vulcanized fibre, acetate butyrate or equivalent material.
k)	It should protect against acid, dust, splash, flying particles and similar hazards.
l)	Size of face shield should be at least 14"X8" or 8"X14".
m)	Information Brochure / catalogue to be supplied along with offer.
	APPROVAL AND TESTING:
a)	The face shield should be CE marked & conformed to EN 166.
b)	Copy of the EN approval / CE certificates to be submitted along with the offer and supply.
11.	<u>BARRICADING TAPE (Material Code:-9599990013)</u>
a)	Barricading Tape shall be of good workmanship, and having adequate tensile strength for barricading.
b)	Multicolour print of best quality on both sides,
c)	Warning message 'DANGER' shall be printed repeatedly and alternately on the strip. The printing should be of excellent quality.
d)	Barricading tape/strip width should be 100-130 mm. It should be supplied in roll of 100-500 Meters length (approx.).
e)	A sample of barricading tape/strip should be send along with the offer for evaluation.
f)	Indicative Picture for illustration:- 
12.	<u>HAND GLOVES, COTTON/CANVAS MADE OF THICK COTTON CLOTH (Material Code:-9510070013)</u>
a)	Size : minimum 350 mm.
b)	It must be of four finger and thumb type.
c)	Good quality thick cotton hand gloves for industrial use.
d)	Bidder shall submit sample (hand gloves), catalogue/photos and literature of the product offered for evaluation purpose.



e)	Indicative Picture for illustration:- 
13.	<u>CHEMICAL SPLASH PROOF GOGGLES (Material Code :- 9508040013)</u>
a)	It should have one piece chemical resistant, high impact, crystal clear <i>polycarbonate lens</i> with a soft vinyl frame.
b)	Frame should provide 100 % sealing of the eyes against splash of liquids / chemicals.
c)	Optical Class: Optical Quality of Ocular shall be class 1
d)	It must be designed & have CE marked and conformed to EN Std. 166.
e)	Should be designed to be worn easily worn over numbered spectacles.
f)	Mechanical Strength: Class B (as per EN 166)
g)	Anti-scratch measure from outside and inside.
h)	Goggles for protection against Liquid Droplets and Splash shall have Frame Markings of 3 as per EN Std 166.
i)	It should also meet the requirement of relevant EN 166.
j)	Information Brochure / catalogue to be supplied along with offer.
k)	Copy of the EN approval / CE certificates to be submitted along with the offer and supply.
14.	<u>DUST MASK (Material Code:-9514060013)</u>
a)	The disposable mask/face piece respirator should be suitable for dust, mist, fumes found in industrial application. It should have filtering efficiency of FFP1 level i.e. 75% or more.
b)	It should be provided with exhalation valve for breathing comfort. It should have non collapsible pre foamed nose/nose cup design and face seal with adjustable head straps for proper fitting.
c)	It should be NIOSH or EN 149 (FFP1 level) or IS 9473 approved and marked accordingly on respirator. A copy of certificate should be send along with offer.
d)	A catalogue/literature of offered material should be send along with offer for evaluation.



15.	<u>TUBE DISCHARGE WITH HORN 4.5 KG CO2 EXTINGUISHER -9541500193</u>
a)	Discharge Hose (Rubber Braided) of length 1m. & ID-10mm with IS: 14933, CO2 - 4.5kg: Hose- Wire braided hose (Burst pressure $\geq$ 275 bar)
b)	Horn- Electrical non-conductor Polyethylene (Flat Discharge horn) Discharge Horn (Should be a non-conductor of electricity)
16.	<u>DISCHARGE TUBE FOR DCP -DISCHARGE FOR 50 KG EXTINGUISHER - 9540500693</u>
a)	Discharge hose shall be of braided rubber or PVC of nominal bore 19 mm diameter fitted with not less than 5 m in case of 50 kg
17.	<u>DISCHARGE TUBE FOR DCP -DISCHARGE FOR 75 KG EXTINGUISHER - 9540500703</u>
a)	Discharge hose shall be of braided rubber or PVC of nominal bore 19 mm diameter fitted with not less than 5 m in case of 75 kg
18.	<u>SAFETY HELMET – BLUE Specification as per Annexure-Q</u>
19.	<u>CO2 CONNECTING TUBE FOR 25 KG, 50 KG AND 75 KG EXTINGUISHER - 9541500193</u>
a)	Copper Tubing or High Pressure Hose — Copper tubing shall conform to bursting pressure of 275 kgf/cm ² or wire braided high pressure hose as per IS 14933:2001
20.	<u>DISCHARGE TUBE FOR DCP -DISCHARGE FOR 25 KG EXTINGUISHER - 9541500533</u>
a)	Discharge hose shall be of braided rubber or PVC of nominal bore 19 mm diameter fitted with not less than 3 m in case of 25 kg IS 10658
21.	<u>WELDING FACE SHIELD (FACE PROTECTION AT THE TIME OF WELDING - 9504030013</u>
a)	Size: 100mm x 75mm
b)	Operating Range : -50 0C to +800C
c)	Provides complete protection to the user's face during welding operations.
d)	Ideal for Use During welding operations.
e)	Features Equipped with a flip up front window that the user can choose to open when not performing an operation.
f)	Has removable lens which is tested against EN 175 and EN 169. The head band of Welding Helmet has 4 adjustment positions and is provided with an anti-sweat comfort pad for increased comfort.
g)	Consists of ratchet adjustment for easy harness adjustment.
h)	The IR Lens Is Provided Extra As Per Choice
i)	Inner harness Material High impact resistant polycarbonate for increased protection; Material of Shell: polypropylene impact resistant shell that can be adjusted and tested for electrical insulation.



ANNEXURE-Q – FOR SOR ITEMS SL. NO. 8 & 18

Description	Full Body Safety Harness (Item sl. no. 8 of the SOR)
Governing Specifications	CE marked Full Body Harness and Lanyard Integrated with Energy Absorber shall conform to EN-361-2002(EN Standard for Personal Protective Equipment against fall from heights– full body harness), Lanyards shall conform to EN 354-2010 (EN Standard for Personal Protective Equipment against fall from heights - lanyards) and Energy Absorber shall conform to EN 355-2002(EN Standard for Personal Protective Equipment against fall from heights - Energy Absorber).
Accessories	
Accessories of Full Body Safety Harness -1	Sternal/Front attachment at chest level for fall arrester and Dorsal/back attachment (Alloy Steel D ring) for fall arrest lanyard,Two Pull Grip adjustable shoulder and thigh straps for easy adjustment,Sit strap ideally positioned for extended Comfort.,Shoulder Straps and Thigh Straps: Two adjustable shoulder straps made of min. 40 mm wide polyester antistatic webbing. The antistatic webbing should confirm to EN-1149-1, 2008,Dorsal/Back attachment D Ring: One Alloy Steel Dorsal D-ring at back to attach lanyards for work restraint and fall arrest.
Accessories of Full Body Safety Harness -2	Adjustable Buckles: Serrated /Quick connect Steel buckles on thighs and shoulders for size adjustment,Forked rope Double lanyard: Each 1.5 M long, min. 12 mm dia., 3 strands, polyamide rope having two scaffold hooks (Alloy Steel - minimum 50 mm opening) shall be provided at one end and Shock absorber at the another end. The shock absorber should be connected to lanyards through a connector at one end and harness at another end i.e. joints should be non detachable. Both the ends of the rope should be spliced / twined and covered with transparent heat shrinkable PVC cover. CE mark to be provided on each lanyard. Confirmation regarding UV protection of polyamide lanyard to be submitted by the vendor,Energy/Shock Absorber: Minimum 40 mm tear synthetic/polyamide webbing for shock absorption with both end loop



Other Requirements

Third Party Inspection	Buyer Approved TPI Agency shall review all documents, witness the tests at vendor's place and certify compliance Report of the product, as claimed in EN Certificate. Results of dynamic drop test (free fall from 4 M height donned to a test dummy weighing min. 100 kg. at each attachment element) and static load test (min. 15 KN) will also be witnessed and certified by buyer Approved TPI Agency. Vendor shall produce all required documents related to marking / test of full body safety harness (All components) and shall also arrange for carrying out above mentioned tests for by buyer Approved TPI Agency without any extra cost to buyer.
Performance Guarantee	The vendor shall provide Minimum 12 months guarantee of the supplied material from the date of Supply. Vendor shall carryout six monthly inspection of the supplied material within the guarantee period without any extra cost to buyer. Vendor shall also provide inspection report.,Vendor has to replace the defective material without any extra cost to buyer within one Month from the date of intimation of defect to the vendor from the owner.
Demonstration cum Training	Vendor must arrange for demonstration cum training on the safe use of Full body harness at Owner's site at the time of supply of materials without any cost to buyer.
Work Positioning Arrangement (for the locations where the requirement of work positioning safety harness is necessary)	Two Lateral D-Rings in the harness for work positioning. The adjustable work positioning belt shall be supplied along with the Full Body Safety Harness. Work positioning belt shall be confirming to EN-358-1999 (Latest Edition). Lanyard of length maximum 2 M with suitable fitting shall be provided for work positioning harness.

Certification

Certificate/Document of conformity to be provided to buyer with quotation/offer	Copies of valid documents from the certified /notified body that allow a product to carry CE mark / EN certification for full body harness (EN 361), lanyard integral with energy absorber (EN-355) and Connector (EN 362), Work Positioning Belt (EN 358)-if supplied, Antistatic Webbing (EN 1149-1), Ventral D-
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	Ring (EN-813).,Copy of valid EN Certificates and submission of the Test Reports linked to the certificates of all components.,Technical Literature / Catalogue,Valid EN certificates (of Validity within 1 year / renewal thereof for 1 year).,Bidders must submit a returnable sample along with the offer.
Certificate/Document of conformity to be provided to buyer with supply of the Material	Copies of valid documents from the certified /notified body that allow a product to carry CE mark / EN certification for full body harness (EN 361), lanyard integral with energy absorber (EN-355) and Connector (EN 362), Work Positioning Belt (EN 358)-if supplied, Antistatic Webbing (EN 1149-1), Ventral D-Ring (EN-813).,Copy of valid EN Certificates and submission of the Test Reports linked to the certificates of all components,Two Set of Instruction manual(s)/Document(s) for application / limitations, safe use, pre- use checks, periodic examinations and maintenance/repair for supplied materials/items,The Stacking, Handling and Disposal Procedures shall be submitted.
Certificate/Declaration of conformity to be provided to buyer on demand	Submission of EN Certificates,Availability of Test Reports from EN approved LABS to prove conformity to Specification



Industrial Safety Helmet (PNG)

Industrial Safety Helmet (PNG)
(Item sl. no. 18 of the SOR)

The screenshot shows the GeM website interface. The top navigation bar includes links for Dashboard, Market, Forward Auction, Bids, Push Button Procurement, and View Past Performance. The main content area displays the product 'AD HOC Blue Industrial Safety Helmet (PNG)' with a price of ₹135.00. The product details include: Price For: 1 pieces, MRP/Unit: ₹150.00, Offer Price/Unit: ₹135.00, Availability: 800 In Stock, Min. Qty. Per Consignee: 1, Product id: 5116877-45693485183, Country Of Origin: India, Local Content (MII): 100%. The bottom of the page shows a Windows taskbar with various application icons and the system clock indicating 09:32 on 07/01/2023.

SPECIFICATION

Conformity to specification	IS 2925:latest, EN 397 certified, CE/ANSI and DGMS
ISI Marked	Yes

MATERIAL

Material of shell	HDPE
Quality of Shell	High quality, high impact, heat & chemical resistant, light weight, Tough
Chin strap Material	High quality Nylon fiber
Continuous loop Crown Straps Material	eight - point connecting head attachment with synthetic harness and a deep ergonomic nape strap design for improved comfort & protection.



DESIGN

Industrial Safety Helmet (PNG) Design

The shell of Industrial Safety Helmet should be provided with ventilation holes on the helmet as per the requirement of EN 397. At the same time it should not allow water to ingress inside helmet. The Inner headband should be made from high quality light weight LDPE and synthetic webbing for better comfort and fit. The shell of Industrial Safety Helmet should be designed in such a manner that, it deflects any liquid that falls from the top. The Brim of the Industrial Safety Helmet shall be designed to prevent falling water straight downward in case of rain and give protection to face. The Shell of Industrial Safety Helmet to have lateral slots above the ears for easy integration and quick detachability for ear muff, face shield. The Shell of Industrial Safety Helmet to have suitable locks to prevent unwarranted detachment of headband from the shell. The headband of Industrial Safety Helmet should be in the range of 540 mm to 590 mm with a tolerance of ± 10 mm. Industrial Safety Helmet should be provided with appropriate sweatband to absorb and dry sweat from the forehead. Ventilated sweat band made of good quality sponge with perforated backing (for sweat evaporation and comfort) shall fit on the forehead and temple comfortably. The sweat band shall have a quilted design which minimizes the surface of contact with the forehead. The headband of Industrial Safety Helmet should have at least 4 anchor points with shell for better comfort and fit and ensure equal load distribution and minimum impact on the wearer. The headband of Industrial Safety Helmet shall have suitable arrangement for easy mounting inside the slots provided in the shell and to fit crown straps. The headband of Industrial Safety Helmet should be ratchet type with spring loaded locking facility / direct locking facility. Crown Straps shall maintain sufficient vertical clearance between the top of wearer's head and the inside of the shell for enabling the helmet to be adjusted for comfortable wearing heights. The chin strap shall be adjustable in length through non-metallic buckle arrangement. Option for without holes should be allowed. It requires to conduct test for Electrical insulation as per ANSI, The shell of Industrial Safety Helmet should be provided without ventilation holes on the helmet as per ANSI to conduct electrical and water resistance test. Eight - point connecting head attachment with synthetic harness and a deep ergonomic nape strap design for improved comfort & protection.



COLOUR

Colour of Helmet	Blue
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MARKING

Markings	as per buyer requirement
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ADVANCE SAMPLE

Agree to Provide Advance Sample to Buyer's before Commencement of bulk supply(Hint: Applicable in case of orders placed against bid and not applicable in case of Direct Buying)	YES
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CERTIFICATE/APPROVAL

Possession of Certificate/Approval of Industrial Safety Helmet (PNG)	Valid BIS License
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OTHER REQUIREMENT

Other Requirement	NA
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GUARANTEE

Guarantee (in Months)	12 months
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TEST REPORT

Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification	Yes
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SECTION-VI

SCHEDULE OF RATES [SOR] UN-PRICED BID

**SUB: "PROCUREMENT OF PPES AND SPARES FOR SHUTDOWN 2023 AT
BCPL LEPETKATA, DULIAJAN AND LAKWA"**

TENDER NO.: BCPL/C&P/CO22S350MB/5653



SCHEDULE OF RATE (TO BE QUOTED IN GEM)

Sn	Item Description	UOM	QTY
1	Boiler suit, cotton cloth overall with bright coloured cloth with BCPL logo at back & pocket <i>(Detail specification as per Annexure-P)</i>	EA	300
2	PVC/chemical full body suit <i>(Detail specification as per Annexure-P)</i>	EA	200
3	Intrinsic safety torch with dry cell/rechargeable <i>(Detail specification as per Annexure-P)</i>	EA	50
4	Goggles splinter proof type for protecting against flying particles, having side ventilation <i>(Detail specification as per Annexure-P)</i>	EA	1000
5	Hand gloves, cotton polka dots <i>(Detail specification as per Annexure-P)</i>	PAIR	10000
6	Wind sock cloth <i>(Detail specification as per Annexure-P)</i>	EA	200
7	Gum boot <i>(Detail specification as per Annexure-P)</i>	PAIR	50
8	Safety Belt <i>(Detail specification as per Annexure-Q)</i>	EA	50
9	Fire Blanket <i>(Detail specification as per Annexure-P)</i>	EA	250
10	Face Shield 14*9 IN <i>(Detail specification as per Annexure-P)</i>	EA	100
11	Barricading Tape <i>(Detail specification as per Annexure-P)</i>	M	300
12	Gloves Hand Cotton <i>(Detail specification as per Annexure-P)</i>	PAIR	2000
13	Goggles Splash Proof <i>(Detail specification as per Annexure-P)</i>	EA	500
14	Dust Mask <i>(Detail specification as per Annexure-P)</i>	EA	5000
15	Tube Discharge with Horn 4.5 Kg Co2 Extinguisher <i>(Detail specification as per Annexure-P)</i>	EA	400
16	DCP Discharge tube for 50 Kg Extinguisher <i>(Detail specification as per Annexure-P)</i>	EA	100
17	DCP Discharge tube for 75 Kg Extinguisher <i>(Detail specification as per Annexure-P)</i>	EA	100
18	Safety Helmet - Blue <i>(Detail specification as per Annexure-Q)</i>	EA	500
19	Connecting tube from Co2 Cylinder to DCP cylinder for 25kg,50 kg and 75 Kg extinguisher <i>(Detail specification as per Annexure-P)</i>	EA	400
20	DCP Discharge tube for 25 Kg Extinguisher <i>(Detail specification as per Annexure-P)</i>	EA	22
21	Welding Face Shield (Face Protection at the time of Welding <i>(Detail specification as per Annexure-P)</i>	EA	50

EA- EACH; PAA-Pair; M- Metre

NOTE: EVALUATION SHALL BE DONE ON ITEM WISE BASIS (BOQ SYSTEM) AND THE RATE SHALL BE INCLUSIVE OF ALL TAXES, DUTIES & FREIGHT CHARGES UPTO BCPL, LEPETKATA SITE.