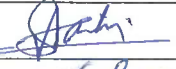
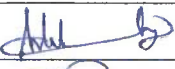
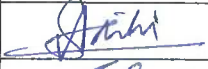
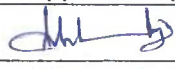


MATERIAL CODE EL8379010019 & EL8379010027	 EPD		1800-01 Rev. 00		PURCHASE SPECIFICATION FOR AIR SHOWER		ISSUE NO : 06	
							DOC.NO: SPV-UT-004	
							REV : 00 JUL-2019	
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COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.		Brief Description: BHEL is going to set up a 300 MW SPV Module manufacturing plant with advanced automations, and for this, clean environment is to be maintained inside the shop floor. As a part of the clean room, Air showers are required for VIP movement as well as worker's movement. Hence, BHEL is planning to procure 2 air showers of specifications as detailed below:						
		SI No	Parameters	Requirement of BHEL				
		1	USE	INDUSTRIAL PURPOSE To be used in Solar PV module manufacturing shop floor				
		2	MODE OF OPERATION	Automatic				
		3	MAKE & MODEL	To be indicated by bidder				
		4	AIR SHOWER CAPACITY	1. 7 PERSONS – 1 No 2. 15 PERSONS – 1 No				
		5	MATERIAL OF CONSTRUCTION FOR THE CABINET	SS-304				
		6	PLATFORM	SS-304 with PVC mat				
		7	DOOR	View panel door SS-304 With flush double glazing glass, hardware like door closure, D handles, ball bearing butt hinges etc				
		8	OVERALL DIMENSIONS	1. Should not be less than 1720 x 1930 x 2600 mm (W x D x H) 2. Should not be less than 1415 x 4600 x 2600 mm (W x D x H)				
		9	INNER DIMENSIONS	1. Should not be less than 1220 x 1830 x 1950 mm (W x D x H) 2. Should not be less than 915 x 4500 x 1950 mm (W x D x H)				
		10	CLEANLINESS	Class 10000/ ISO-7, Cleanliness certificate to be provided				
11	AIR VELOCITY AT NOZZLE DISCHARGE	24±2 m/sec Value mentioned here is indicative Vendor to provide value of their standard product						
Rev.00:		Issued By	Prepared By	Checked By	Approved By	Date		
1 st Issue		SPV PROD GROUP				9/7/19		

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Sl No	Parameters	Requirement of BHEL
27	DELIVERY	3 Months from the date of issue of Purchase Order
28	WARRANTY	a. 12 Months from the date of commissioning or 18 months from the date of dispatch whichever is earlier b. Supplier to indicate replacement parts and consumables for 2 years continuous operation (24 hours/ day basis). During the period of warranty, these spares and consumables are the scope of supplier c. List of spares and consumables to be provided along with techno-commercial offer
29	AFTER SALES SERVICE	Reliable after sales service should be available. Vendor to provide necessary details
30	QUALIFICATION CRITERIA	a. Bidder should be Original Equipment Manufacturer (OEM) or Authorized Dealer for the Item quoted. Bidder to give necessary OEM certificate or Dealership Certificate. b. Vendor should have installed Minimum of 3 installation in Solar PV shops or Electrical / Electronic industry in the last three years. Necessary Installation certificate to be provided. c. Offer shall be for new equipment and not for any refurbished or used equipment d. BHEL reserves the right for independent verification of the compliance to PQR

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SPECIFICATION REVIEWED AND APPROVED

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NAME	SIGNATURE
AMARJYOTI SAIKIA	
Y. RAVI	
S. ARUNA CHALAM	
MOHAN. J	
RAJESH KUMAR SINGH	
C. N. PURUSHOTHAM.	

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BHARAT HEAVY ELECTRICALS LTD.,
ELECTRIC & PHOTOVOLTAIC DIVISION, IISC POST, BENGALURU - 560012
DEPARTMENT : SPV & WEX - Projects

Ref : PR No. 50003243
Date: 09.07.2019

LIST OF LINE ITEMS / BILL OF MATERIALS

Sl No.	Item / Description	Unit	Quantity	Rate	Amount	Remarks
1	AIR SHOWER FOR 7 PERSONS	NO	1			The Air Shower as per Purchase Specification No. SPV-UT-004 Complete inclusive of the following units / components and not limited to: a. Air Shower 7 person capacity inclusive of all electrical connection and control - 1 No b. Biometric system -1 No c. Protection / Safety systems as required - 1 Lot d. Additional / Associated equipment : Other accessories as required - 1 Lot
2	AIR SHOWER FOR 15 PERSONS	NO	1			The Air Shower as per Purchase Specification No. SPV-UT-004 Complete inclusive of the following units / components and not limited to: a. Air Shower 15 person capacity inclusive of all electrical connection and control - 1 No b. Biometric system -1 No c. Protection / Safety systems as required - 1 Lot d. Additional / Associated equipment : Other accessories as required - 1 Lot
3	Installation and Commissioning of the system at BHEL - EPD	Set	2			
4	Training of BHEL Staff on Operation and Maintenance					
5	Technical Documentation, Software and other associated information					
6	Consumables for a period of 2 years	Set	2			Bidder to indicate and provide details
7	Spare Parts package for a period of 2 years	Set	2			Bidder to indicate and provide details