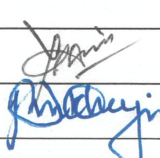
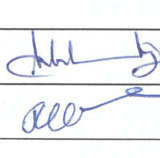
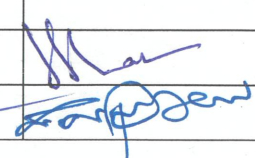
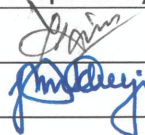
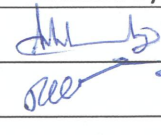
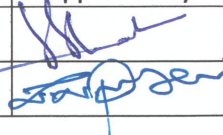
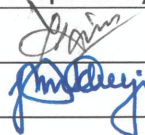
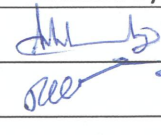
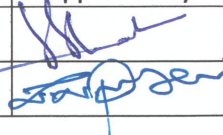
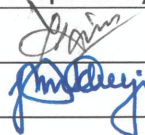
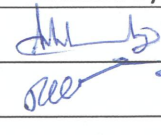
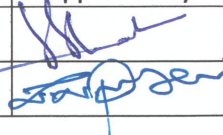


MATERIAL CODE EL8211800012	 EPD 1800-01 Rev. 00		PURCHASE SPECIFICATION FOR INVERTER TYPE AC UNITS			ISSUE NO : 06																																																																
						DOC.NO: SCR-UT-012																																																																
						REV : 00	NOV 2018																																																															
						Page 1 of 3																																																																
PURPOSE: AC units to be installed in Nano office, SCR production office and Instrument lab. SCOPE: Scope involves supply and commissioning of Inverter Type AC Units, required parameters as detailed below :																																																																						
<table border="1"> <tr> <td>1</td> <td>Inverter Type AC Units</td> <td>2 TR .</td> </tr> <tr> <td>2</td> <td>SPLIT AC Qty</td> <td>8 Nos + 8 NOS.</td> </tr> <tr> <td>3</td> <td>Type</td> <td>Inverter Type</td> </tr> <tr> <td>4</td> <td>capacity</td> <td>2T</td> </tr> <tr> <td>5</td> <td>Star Rating</td> <td>5 star BEE rating</td> </tr> <tr> <td>6</td> <td>Operation</td> <td>Remote</td> </tr> <tr> <td>7</td> <td>Usage</td> <td>Offices</td> </tr> <tr> <td></td> <td>Bidder to indicate the following</td> <td></td> </tr> <tr> <td>8</td> <td>Make</td> <td></td> </tr> <tr> <td>9</td> <td>Model</td> <td></td> </tr> <tr> <td>10</td> <td>Cooling Capacity</td> <td></td> </tr> <tr> <td>11</td> <td>Electrical data (V, Amps, Ph, Hz)</td> <td></td> </tr> <tr> <td>12</td> <td>Performance capacity (cmh)</td> <td></td> </tr> <tr> <td>13</td> <td>Noise (dbA) level indoor</td> <td></td> </tr> <tr> <td>14</td> <td>Compressor Type</td> <td></td> </tr> <tr> <td>15</td> <td>Refrigerant Type (Should be environment friendly)</td> <td></td> </tr> <tr> <td>16</td> <td>Dimension indoor unit (mm)</td> <td></td> </tr> <tr> <td>17</td> <td>Dimension outdoor unit (mm)</td> <td></td> </tr> <tr> <td>18</td> <td>Connecting Copper pipe Size & Material</td> <td></td> </tr> <tr> <td>19</td> <td>Filtration system type to protect harmful allergens.</td> <td></td> </tr> <tr> <td>20</td> <td>Anti corrosive coating</td> <td></td> </tr> </table>								1	Inverter Type AC Units	2 TR .	2	SPLIT AC Qty	8 Nos + 8 NOS.	3	Type	Inverter Type	4	capacity	2T	5	Star Rating	5 star BEE rating	6	Operation	Remote	7	Usage	Offices		Bidder to indicate the following		8	Make		9	Model		10	Cooling Capacity		11	Electrical data (V, Amps, Ph, Hz)		12	Performance capacity (cmh)		13	Noise (dbA) level indoor		14	Compressor Type		15	Refrigerant Type (Should be environment friendly)		16	Dimension indoor unit (mm)		17	Dimension outdoor unit (mm)		18	Connecting Copper pipe Size & Material		19	Filtration system type to protect harmful allergens.		20	Anti corrosive coating	
1	Inverter Type AC Units	2 TR .																																																																				
2	SPLIT AC Qty	8 Nos + 8 NOS.																																																																				
3	Type	Inverter Type																																																																				
4	capacity	2T																																																																				
5	Star Rating	5 star BEE rating																																																																				
6	Operation	Remote																																																																				
7	Usage	Offices																																																																				
	Bidder to indicate the following																																																																					
8	Make																																																																					
9	Model																																																																					
10	Cooling Capacity																																																																					
11	Electrical data (V, Amps, Ph, Hz)																																																																					
12	Performance capacity (cmh)																																																																					
13	Noise (dbA) level indoor																																																																					
14	Compressor Type																																																																					
15	Refrigerant Type (Should be environment friendly)																																																																					
16	Dimension indoor unit (mm)																																																																					
17	Dimension outdoor unit (mm)																																																																					
18	Connecting Copper pipe Size & Material																																																																					
19	Filtration system type to protect harmful allergens.																																																																					
20	Anti corrosive coating																																																																					
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.																																																																						
Rev.00 : 1st Issue		Issued By SCR PROD GROUP	Prepared By 	Checked By 	Approved By 	Date 20.11.18																																																																

MATERIAL CODE EL8211800012	 1800-01 Rev. 00 EPD		PURCHASE SPECIFICATION FOR INVERTER TYPE AC UNITS		ISSUE NO : 06 DOC.NO: SCR-UT-012 REV : 00 NOV 2018 Page 2 of 3																								
	<table border="1"> <tr> <td>21</td> <td>Dehumidification</td> <td></td> </tr> <tr> <td>22</td> <td>Self-diagnosis</td> <td></td> </tr> <tr> <td>23</td> <td>Smart remote access</td> <td></td> </tr> <tr> <td>24</td> <td>Additional features like: Anti fungus Auto restart Sleep mode Air swing LCD display</td> <td></td> </tr> <tr> <td>25</td> <td>Color (White)</td> <td></td> </tr> <tr> <td>26</td> <td>Catalogue</td> <td>Hardcopy catalog to be submitted</td> </tr> <tr> <td>27</td> <td>WARRANTY</td> <td>12 months from the date of commissioning or 18 months from the date of supply whichever is earlier.</td> </tr> <tr> <td>28</td> <td>SUPPLY, COMMISSIONING</td> <td>Supply & commissioning of AC Units should be at BHEL EPD. Report to be submitted</td> </tr> </table>						21	Dehumidification		22	Self-diagnosis		23	Smart remote access		24	Additional features like: Anti fungus Auto restart Sleep mode Air swing LCD display		25	Color (White)		26	Catalogue	Hardcopy catalog to be submitted	27	WARRANTY	12 months from the date of commissioning or 18 months from the date of supply whichever is earlier.	28	SUPPLY, COMMISSIONING
21	Dehumidification																												
22	Self-diagnosis																												
23	Smart remote access																												
24	Additional features like: Anti fungus Auto restart Sleep mode Air swing LCD display																												
25	Color (White)																												
26	Catalogue	Hardcopy catalog to be submitted																											
27	WARRANTY	12 months from the date of commissioning or 18 months from the date of supply whichever is earlier.																											
28	SUPPLY, COMMISSIONING	Supply & commissioning of AC Units should be at BHEL EPD. Report to be submitted																											
Qualification Criteria																													
<table border="1"> <thead> <tr> <th>Sl no</th> <th>BHEL Standard Terms & Conditions</th> <th>Documents to be submitted by vendor / Remarks</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Bidder should be original equipment manufacturer (OEM) of the quoted item. Bidder to submit company credentials to prove as OEM. Authorized dealer can also submit offer.</td> <td>Registration certificate as a manufacturer or any other document to establish bidder as manufacturer. In case of dealer, current valid authorization certificate from OEM is to be submitted.</td> </tr> <tr> <td>02</td> <td>Bidder should have manufactured, supplied and successfully commissioned Split AC units minimum `30 Nos during the last 3 years.</td> <td>Bidder to submit copy of purchase orders and performance certificates from the users.</td> </tr> <tr> <td>03</td> <td>BHEL reserves the right for independent verification of the reference provided.</td> <td>Accepted / Not accepted</td> </tr> <tr> <td>04</td> <td>Offer shall be for new equipment and not For any refurbished or used equipment</td> <td>YES / NO</td> </tr> <tr> <td>05</td> <td>Bid shall be kept valid for a period of 60 days starting from the date of opening of Techno-commercial bid.</td> <td>YES / NO</td> </tr> </tbody> </table>							Sl no	BHEL Standard Terms & Conditions	Documents to be submitted by vendor / Remarks	01	Bidder should be original equipment manufacturer (OEM) of the quoted item. Bidder to submit company credentials to prove as OEM. Authorized dealer can also submit offer.	Registration certificate as a manufacturer or any other document to establish bidder as manufacturer. In case of dealer, current valid authorization certificate from OEM is to be submitted.	02	Bidder should have manufactured, supplied and successfully commissioned Split AC units minimum `30 Nos during the last 3 years.	Bidder to submit copy of purchase orders and performance certificates from the users.	03	BHEL reserves the right for independent verification of the reference provided.	Accepted / Not accepted	04	Offer shall be for new equipment and not For any refurbished or used equipment	YES / NO	05	Bid shall be kept valid for a period of 60 days starting from the date of opening of Techno-commercial bid.	YES / NO					
Sl no	BHEL Standard Terms & Conditions	Documents to be submitted by vendor / Remarks																											
01	Bidder should be original equipment manufacturer (OEM) of the quoted item. Bidder to submit company credentials to prove as OEM. Authorized dealer can also submit offer.	Registration certificate as a manufacturer or any other document to establish bidder as manufacturer. In case of dealer, current valid authorization certificate from OEM is to be submitted.																											
02	Bidder should have manufactured, supplied and successfully commissioned Split AC units minimum `30 Nos during the last 3 years.	Bidder to submit copy of purchase orders and performance certificates from the users.																											
03	BHEL reserves the right for independent verification of the reference provided.	Accepted / Not accepted																											
04	Offer shall be for new equipment and not For any refurbished or used equipment	YES / NO																											
05	Bid shall be kept valid for a period of 60 days starting from the date of opening of Techno-commercial bid.	YES / NO																											
<table border="1"> <tr> <td>Rev.00:</td> <td>Issued By</td> <td>Prepared By</td> <td>Checked By</td> <td>Approved By</td> <td>Date</td> </tr> <tr> <td>1st Issue</td> <td>SCR PROD GROUP</td> <td></td> <td></td> <td></td> <td>20.11.18</td> </tr> </table>							Rev.00:	Issued By	Prepared By	Checked By	Approved By	Date	1 st Issue	SCR PROD GROUP				20.11.18											
Rev.00:	Issued By	Prepared By	Checked By	Approved By	Date																								
1 st Issue	SCR PROD GROUP				20.11.18																								

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.

BHARAT HEAVY ELECTRICALS LTD.,
ELECTROPORCELAINS DIVISION, IISC POST, BENGALURU - 560012
DEPARTMENT : SCR & WEX - Projects

Ref : PR No. 50003194
 Date: 20.11.2018

LIST OF LINE ITEMS / BILL OF MATERIALS

Sl No.	Item / Description	Unit	Quantity	Rate	Amount	Remarks
1	Air conditioners - Invertor type	SET	8 + 8			The Air Conditioners - Invertor type as per Purchase Specification No. SCR-UT-012 Complete inclusive of the following units / components and not limited to: a. Invertor type AC 2TR - 08 nos + 08 nos. b. Interconnecting copper pipes and accessories c. Protection / Safety systems as required d. Additional / Associated equipment : Other accessories as required.
2	Installation and Commissioning of the equipment at BHEL - EPD	Set	8 + 8			
3	Training of BHEL Staff on Operation and Maintenance.					
4	Catalogue and other associated information					