

MATERIAL CODE: EL5421800024	 EPD - 560012		PURCHASE SPECIFICATION FOR AMMONIUM METAVANADATE (NH₄VO₃)			ISSUE NO : 06																		
						DOC.NO: SCR-D-RM-003																		
						REV : 00	JULY 2019																	
						Page 1 of 2																		
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.	1.0 GENERAL This specification governs the requirements of Ammonium Metavanadate Powder for application in manufacturing catalyst for selective catalytic reduction of NO _x (Oxides of Nitrogen)																							
	2.0 APPEARANCE White-pale yellow crystal powder																							
	3.0 Fineness 100% should pass through 30 Mesh																							
	4.0 CHEMICAL PROPERTIES <table border="1" data-bbox="625 882 1195 1312"> <thead> <tr> <th>Constituents/ Components</th> <th>Acceptable Limit (%)</th> </tr> </thead> <tbody> <tr> <td>Moisture Content</td> <td><1.0</td> </tr> <tr> <td>NH₄VO₃</td> <td>>98.0</td> </tr> <tr> <td>SO₄</td> <td><0.3</td> </tr> <tr> <td>Al₂O₃</td> <td><0.2</td> </tr> <tr> <td>Fe₂O₃</td> <td><0.03</td> </tr> <tr> <td>Na₂O</td> <td><0.05</td> </tr> <tr> <td>K₂O</td> <td><0.05</td> </tr> <tr> <td>Melting Point</td> <td>Decomposed at 210 °C</td> </tr> </tbody> </table>						Constituents/ Components	Acceptable Limit (%)	Moisture Content	<1.0	NH ₄ VO ₃	>98.0	SO ₄	<0.3	Al ₂ O ₃	<0.2	Fe ₂ O ₃	<0.03	Na ₂ O	<0.05	K ₂ O	<0.05	Melting Point	Decomposed at 210 °C
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5.0 CONDITION OF DELIVERY Powder shall be supplied in moisture proof packed condition as per Purchase order. Generally package size will be 25 kg per pack unless otherwise specified. Vendor needs to supply sample (Min 100 gms with sample identification) along with the techno-commercial offer for approval by BHEL. The vendor shall ensure bulk supply as per the final sample approval.																								
6.0 TEST SAMPLES Test samples will be drawn as per ASTM E300																								
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						DOC.NO: SCR-D-RM-003	
						REV : 00	OCT 2018
						Page 2 of 2	
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.	7.0 TEST CERTIFICATE Copies of test certificates shall be supplied along with each consignment, giving the following information: In addition, the supplier shall ensure to enclose one copy of the test certificate along with the despatch documents to facilitate quick clearance of the material. The supplier shall submit test certificates giving the following information a) Purchase Order no. b) Purchasing specification no. c) Suppliers reference and name d) Batch no. with traceability e) Consignment identification f) Results of various tests as called for in this specification g) Details of packing and the standards being followed						
	8.0 PACKING & MARKING Manufacturer can follow any national or international standard to ensure moisture proof packing. Each pack shall be legibly identified with the following information. a) Supplier's/Manufacturer's Name and Trade mark, if any b) BHEL Purchase Order no. c) Quantity in the package d) Consignment identification e) Lot (or batch) identification f) Packing date						
	9.0 ENVIRONMENTAL REQUIREMENT The supplier shall furnish Material Safety Data Sheet (MSDS) covering all information relating to human safety and environmental impacts of the hazardous materials particularly during their transportation, storage, handling and disposal along with each supply. Each container shall be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc., as applicable.						
	10.0 INSPECTION AT VENDOR's PREMISES BHEL's representative shall have free access to all parts of Vendors' premises at all times when work on the contract is being executed. The vendor shall offer BHEL's representative all reasonable facilities to convince the latter that the material is being manufactured in accordance with this specification.						
	11.0 REJECTION Materials not conforming to the above stipulations shall be rejected. Also in the event of proving defective in the course of any further processing the same shall be rejected notwithstanding any previous certification of satisfactory testing and/or inspection.						
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