



MATERIAL CODE : EL5421800075	 EPD - 560012		<b>PURCHASE SPECIFICATION FOR AMMONIA LIQUOR (ALSO KNOWN AS AQUA AMMONIA AND AMMONIUM HYDROXIDE)</b>			ISSUE NO : 06												
						DOC.NO: SCR-D-RM-009												
						REV : 00	JULY 2019											
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<b>Copyright and Confidential</b> <i>The information in 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</i>	<b>1.0 GENERAL</b>  Ammonia solution, also known as Ammonia water, Ammonium hydroxide, Ammoniacal liquor, Ammonia liquor, Aqua Ammonia, Aqueous Ammonia, or (inaccurately) Ammonia, is a solution of Ammonia in water.																	
	<b>2.0 APPEARANCE</b>  The material shall be a clear and colorless liquid of extremely pungent and characteristic odor, free from suspended matter and sediment. The material absorbs carbon dioxide from air.																	
	<b>3.0 TECHNICAL ACCEPTANCE</b>																	
	<table border="1"> <thead> <tr> <th>Sl no</th> <th>Characteristics</th> <th>Acceptable Range/Value</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Anhydrous Ammonia</td> <td>25 % ± 0.1%</td> </tr> <tr> <td>II</td> <td>Residue on evaporation</td> <td>0.1% (max)</td> </tr> <tr> <td>II</td> <td>Water (H<sub>2</sub>O)</td> <td>remaining</td> </tr> </tbody> </table>						Sl no	Characteristics	Acceptable Range/Value	I	Anhydrous Ammonia	25 % ± 0.1%	II	Residue on evaporation	0.1% (max)	II	Water (H <sub>2</sub> O)	remaining
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<b>4.0 CONDITION OF DELIVERY</b>  Material shall be supplied in condition as per Purchase order. Liquor Ammonia shall be supplied in vendors tankers with inbuilt pumping system. The material shall be pumped to BHEL Storage tank after due weighment before and after pumping. The actual supply will be through measurement of liquor ammonia received at BHEL – EPD.  <b>LIQUID CAUSES BURNS – VAPOUR EXTREMELY IRRITATING: HANDLE WITH CARE</b>																		
	Revision (00): 1 <sup>st</sup> Issue	Issued By  SCR PROD GROUP	Prepared By	Checked By	Approved By	Date												

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	<p><b>5.0 TEST CERTIFICATE</b></p> <p>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.</p> <p>The supplier shall submit test certificates giving the following information</p> <ol style="list-style-type: none"> <li>Purchase Order no.</li> <li>Purchasing specification no.</li> <li>Suppliers reference and name</li> <li>Batch no.</li> <li>Consignment identification</li> <li>Results of various tests as called for in this specification</li> </ol> <p><b>6.0 TEST SAMPLES</b></p> <p>Test samples will be drawn as per IS 799.</p> <p><b>7.0 STORAGE and delivery</b></p> <p>Liquor ammonia to be delivered at BHEL SBD by container and to be unloaded directly into the ammonia tank.</p> <p><b>8.0 ENVIRONMENTAL REQUIREMENT</b></p> <p>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.</p> <p>Each container shell be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc., as applicable.</p> <p><b>9.0 INSPECTION AT VENDOR's PREMISES</b></p> <p>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.</p> <p><b>10.0 REJECTION</b></p> <p>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.</p>						
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