

**URANIUM CORPORATION OF INDIA LIMITED**  
**JADUGUDA MINES**

**Annexure-1**  
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Public Tender No. : PUR / 2 / 50 / 0254 / 581  
Item : Needle felt Filter Cloth

**M A T E R I A L   D E T A I L S**

The filter media, 52" width is required for use on string discharge Rotary drum vacuum filter for the filtration of acidic slurry. The slurry characteristics and other operating parameters are as follows:

|  |  |
|--|--|
| Nature of Solid  | : Abrasive Siliceous ore   |
| Particle size  | : 65% passing through 200 mesh & 0.5% retained on 48 mesh. Rest in between 200 mesh fraction. 40% particles are of size less than 325 mesh |
| Sp. Gravity of solid   | : 2.8  |
| Sp. Gravity of liquid  | : 1.0  |
| Density of slurry  | : 1.67 (slurry contains 60% solid by weight)   |
| Nature of liquid   | : Acidic containing 0.25% free sulphuric acid  |
| pH of slurry   | : 1.5 to 1.8   |
| Turbidity of filtrate required   | : 50 to 100 ppm  |
| Operating Temperature  | : 50 to 60°C   |
| Operating Vacuum   | : 600-660 mm of Hg   |
| Specification of filter media  | : Poly Propylene non woven needle felt signed on both the sides & calendared on the cake side with the following Specification:            |
| Weight of filter media in gms/m <sup>2</sup>   | : 500-550  |
| Air permeability of the finished fabric in M3/M2 Of surface area per minute under a differential Pressure of ½" WG | : 50   |
| Breaking strength in Kgs    Warp   | : 120  |
| (5cm L x 2 cm W strip)      Weft   | : 120  |

1m x 1m sample is required with the offer for lab. evaluation. Sample performing well in lab testing will only be considered for procurement. Leaflet of product containing details must be enclosed.

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