

URANIUM CORPORATION OF INDIA LIMITED
JADUGUDA MINES

Annexure-1
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Public Tender No. : PUR / 2 / 50 / 0409 / 614
Item : Needle felt Filter Cloth

M A T E R I A L D E T A I L S

The filter media in either 52" or 70" width is required for use on string discharge Rotary vacuum drum 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 & calendered on the cake side with the following Specification:
Weight of filter media in gms/m ²	: 500-550
Air permeability of the finished fabric in M ³ /M ² 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.
