

URANIUM CORPORATION OF INDIA LIMITED
JADUGUDA MINES

Annexure-1
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Public Tender No. : PUR / 2 / 22 / 8108 / 611
Item : Filter Media for HBF

MATERIAL DETAILS

Permeability (Lt/m ² .sec@2mB)	:	440 +/-20 (minimum)
Thickness (micron)	:	920 (approx)
Weight (g/m ²)	:	440 minimum
Material of Construction	:	PP monofilament
Max. Elongation at break warp/weft (%)	:	29 / 16
Min. Tensile strength at max. load warp/weft(%)		
	(daN/linear.cm):	95 / 75
Dimensions	:	3.3 mtrs.(width) x 69.65 mtrs. (length)

Each filter media should have a haste alloy 'C-5' clipper and two pintle wires (haste alloy 'C-5' – one working and one standby for emergency) with top flap of same cloth and its edges coated on either side (min 25mm). The Pintle wires shall be of braided type only and a coating of PVDF or PEEK or polypropylene must be there for better durability of the clipper & hence the pintle wire. The side coating must be thick and firm to ensure no damage to the edges on either end of the endless media. The top flap shall be stitched at the fixed end before coating over it for better durability of the flap. The portion of the top flap which will be over the clippers during installation must be thick coated for additional protection of the top flap.

The filter media shall be suitable for filtration of neutral and acid leached slurry.

Duty Conditions are as follows:

Feed size	:	80% passing 74 microns (50% less than 53 microns)
Type of ore	:	Abrasive mineral slurry
Temperature	:	60 to 65°C.
Feed rate & pulp density	:	45-55m ³ /hr. for Acid leach (density : 1.60-1.63%w/w) 130 to 180 m ³ /hr. for Neutral Filter.
pH	:	1.50-1.75 (Sulphuric Acid)

NOTE: Every media must be rolled to ensure easy replacement. The roll must be securely placed in a polyethylene sheet, packed individually in a wooden box. Every media must contain a separate 1 meter length x 3.3 meter wide piece of the parent fabric with proper marking.
