

ANNEXURE - I

FLOCCULANT FOR SETTLING OF TAILING SLURRY

The required polyacrylic powdered flocculent is to be added to alkaline (P^H : 9-12.5) dolomite tailing slurry containing 25-30% solids w/w (80% solids passing through 200 mesh) as mixed with 0.05% flocculant solution to flocculate the tailing slurry in tailing thickener feed box/feed well for its settling in the tailing thickener to get the slurry consistency up to 55-60% solids.

P^H of tailing slurry: 9 - 12.5

Specific gravity of solids: 2.8

Temperature of slurry: 50-55 $^{\circ}C$

% of solids in tailing slurry: 25-30 % solids

Dissolved salts in tailing slurry: traces of Na_2CO_3 , Na_2SO_4 , $NaHCO_3$ / $NaOH$

Selection criteria

- a) Settling test will be carried out with existing plant slurry for determination of settling rate with the offered flocculent sample. Sample of tendered party giving poor rate of settling during evaluation, party will be rejected.

Settling test will be conducted with 500 ml of plant slurry having 25-30% of solids (w/w) with a flocculent dose of 10 ml (0.05% strength) shall be such that it gives a clear liquor above the graduation point of 400 ml in the measuring cylinder at the end of 5 min after the slurry was mixed with the 10 ml of flocculent. However if the settling rate is faster than the above mentioned range, the same sample shall also be qualified for consideration.

- b) Test report of the settling test shall be given only upon written request. The report shall carry only the result of the sample supplied by the concerned party.