

**TECHNICAL DATA SHEET**

Annexure-12

Sl. No.	Description	Data To be filled by Bidder
	<b>Agitators</b>	
1.	No./Make/Model	
2.	Type	
3.	Speed (rpm)	
4.	Drive Mechanism	
5.	Shaft Material	
6.	Material / Thickness (mm) of Impeller / Lining	
7.	Power Consumption	
8.	Motor Rating (KW)	
9.	Motor Speed (rpm)	
10.	Maximum solid particle size ( for pump design)	
11.	Normal solid particle size,d50	
12.	Slurry concentration not more than	
13.	Chloride concentration	
14.	SiO2 concentration	
15.	PH	
16.	Operating temperature range	
17.	Agitator Mounting Orientation	
18.	Number of Agitator ( for one ball mill 1 nos)	
19.	Agitator Model number- vendor to specify.	
20.	Gearbox make & model - vendor to specify.	
21.	Agitator shaft power in kw- vendor to specify.	
22.	Impeller diameter - vendor to specify.	
23.	Blade Material-Alloy926/1.4529 -vendor to confirm	
24.	Impeller mounting bolt and nut shall be Alloy 926 - vendor to confirm	
25.	Shaft Material (carbon steel) - vendor to	

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	specify the grade.	
26.	Shaft diameter - vendor to specify.	
27.	Shaft to be rubber lined - vendor to confirm.	
28.	Rubber lining material (chlorobutyl rubber)- vendor to specify	
29.	Rubber lining thickness - 6mm -vendor to confirm	
30.	Rubber lining hardness (55-65)	
31.	Life of Rubber Lining (minimum 2 yrs.)	
32.	Selected Motor frame size-	
33.	Selected motor power in kw	
34.	Motor RPM & Agitator shaft RPM	
35.	Motor efficiency class (minimum IE3)	
36.	All bearing are FAG/SKF only vendor to confirm	
37.	Static load- vendor to specify.	
38.	Dynamic load (vertical axial force, torsional moment, bending moment)	
39.	Static & dynamic balancing required- vendor to confirm	
40.	Tip speed vendor to specify (less than 30m/s)	
41.	Critical Speed of agitator	
42.	Ratio of shaft speed to critical speed	
43.	Coupling guards with mounting bolt to be provided	
44.	Name plate shall be in SS 304 - vendor to confirm	
45.	Rotation direction of agitator shaft to be marked through arrow plate at a visible location near coupling- vendor to confirm	
46.	General Arrangement drawings of agitator assembly with sectional view & material of construction, BOM, important	

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	dimensions- to be submitted along with offer by vendor for evaluating the Bid - vendor to confirm.	
47.	Direct Drive flexible coupling with high tensile bolts is to be provided by vendor . Coupling make and model Number Coupling drawing with BOM to be provided after purchase order - Vendor to confirm	
48.	First fill oil /grease other consumable to be sent along with pump - vendor to confirm	