

PR no / / dtd

**Annexure -G**Sub: SUPPLY OF Agitators in UCTL-3 *along with Motor.*

Sl. No.	Material code	Material Description	Unit code	Stock in hand	Dues	Consumption rate	Item cat	Quantity required
1	<i>300021001065</i> <i>300057040</i>	Agitator for Flash Mixure Tanks of size : Ø2.1m X 3.0m height  Tag: (26V-1) Technical Specifications are mentioned in Annexure-1	01					01
2	<i>300021001066</i> <i>300057040</i>	Agitator for Barium chloride preparation Tanks of size : Ø2.3m X 2.5 m height  Tag: (26V-1A/ 1B) Technical Specifications are mentioned in Annexure-2	01					01
3	<i>300021001067</i> <i>300057040</i>	Agitator for lime Solution preparation Tanks of size : Ø2.55m X 2.5 m height  Tag: (26V-2A/2B) Technical Specifications are mentioned in Annexure-2	01					01

Make: RATHI/ LIGHTEN/ TENOVA/ V-MIX *only.**Wd. jsh*

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**Annexure-1****Technical Specifications for Flash Mixure Agitators (26 AG-1).**

<b>1. Design basis:</b>	
Service	: Agitator for Flash Mixure Tanks
Tank number	: 26V-1
Duty	: Uniform mixing / Solid Suspension
Tank details	: Ø2.1m X 3.0m height (26V-1)
Process Feed Component	: Water
Slurry S.G	: 1.05
Design temperature	: Ambient
Design pressure	: ATM + Full of liquid
Design Ph	: 6.5-7.5
<b>2. Technical specifications:</b>	
Electric motor:	: 1.5 kW, 1500 RPM (04 Pole). IP 55, 415 V ± 10 %
Insulation class	: F temp Rise Limited To Class B
Coupling of Motor with Agitator	: Electrical motor vertically and directly coupled with Agitator
Absorbed Power	: 0.98 KW
Agitator Speed:	: ~137 RPM.
Agitator shaft:	: ~ Ø 4.0" mtr shaft X ~2.5 mm long (from the Tank top surface)
MOC for shaft:	: EN8 with Rubber Lined
Impellers:	a. Ø 0.725 Mtr -02/03 Bladed, HI-Efficiency Type.(Rubber Lined)
No. of Impeller stages	: One
MOC for Impeller	: Cast Steel with Rubber Lined.
Shaft Sealing Arrangement	: N.A
Method of Mounting	: On Structural Steel Support. (Party has to provide the drawing regarding the mounting on the tank i.e. drawings for Agitator supporting structure)
Baffles	: N.A
Bottom Bush support	: N.A
Agitator Type of Entry	: Top
Qty. of Agltator per Tank	: 01 No
Design Std	: IS :9522

**Technical Specifications for Barium chloride preparation Tank Agitators  
(26AG-1A /1B)**

<b>1. Design basis:</b>	
Service	: Agitator for Barium chloride preparation Tanks
Tank number	: 26V 1A
Duty	: Uniform mixing / Solid Suspension
Tank details	: Ø2.3m X 2.5 m height (26V-1A/ 1B)
Process Feed Component	: Water
Slurry S.G	: 1.05
Design temperature	: Ambient
Design pressure	: ATM + Full of liquid
Design Ph	: 6.5-7.5
<b>2. Technical specifications:</b>	
Electric motor:	: 1.5 kW, 1500 RPM (04 Pole). IP 55, 415 V ± 10 %
Insulation class	: F temp Rise Limited To Class B
Coupling of Motor with Agitator	: Electrical motor vertically and directly coupled with Agitator
Absorbed Power	: 0.98 KW
Agitator Speed:	: ~137 RPM.
Agitator shaft:	: ~ Ø 4.0" mtr shaft X ~2.3 mm long (from the Tank top surface)
MOC for shaft:	: EN8 with Rubber Lined
Impellers:	a. Ø 0.725 Mtr -02/03 Bladed, Hi-Efficiency Type.(Rubber Lined)
No. of Impeller Stages	: One
MOC for Impeller	: Cast Steel with Rubber Lined.
Shaft Sealing Arrangement	: N.A
Method of Mounting	: On Structural Steel Support. (Party has to provide the drawing regarding the mounting on the tank i.e. drawings for Agitator supporting structure)
Baffles	: N.A
Bottom Bush support	: N.A
Agitator Type of Entry	: Top
Qty. of Agitator per Tank	: 01 No
Design Std	: IS :9522

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**Annexure-3****Technical Specifications for Lime Solution Make Up (26V-2A/ 2B).**

<b>1. Design basis:</b>	
Service	: Agitator for lime Solution preparation Tanks
Tank number	: 26V-2A/B
Duty	: Uniform mixing / Solid Suspension
Tank details	: Ø2.55m X 2.5 m height (26V-2A/2B)
Process Feed Component	: Water
Slurry S.G	: 1.05
Design temperature	: Ambient
Design pressure	: ATM + Full of liquid
Design Ph	: 6.5-7.5
<b>2. Technical specifications:</b>	
Electric motor:	: 1.5 kW, 1500 RPM (04 Pole). IP 55, 415 V $\pm$ 10 %
Insulation class	: F temp Rise Limited To Class B
Coupling of Motor with Agitator	: Electrical motor vertically and directly coupled with Agitator
Absorbed Power	: 0.98 KW
Agitator Speed:	: ~137 RPM.
Agitator shaft:	: ~ Ø 4.0" mtr shaft X ~2.3 mm long (from the Tank top surface)
MOC for shaft:	: EN8 with Rubber Lined
Impellers:	: ~Ø 0.825 Mtr -02/03 Bladed, Hi-Efficiency Type.(Rubber   Lined)
No. of Impeller	: One
MOC for Impeller	: Cast Steel with Rubber Lined.
Shaft Sealing Arrangement	: N.A
Method of Mounting	: On Structural Steel Support. (Party has to provide the drawing regarding the mounting on the tank i.e. drawings for Agitator supporting structure)
Baffles	: N.A
Bottom Bush support	: N.A
Agitator Type of Entry	: Top
Qty. of Agitator per Tank	: 01 No
Design Std	: IS :9522

*NOB/gsk*