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### TECHNICAL QUESTIONNAIRE

#### HIGH- G TUBULAR BOWL SUPER-CENTRIFUGE

Company Name :  
Company Address :  
Contact Person :  
Tel. No. :  
Fax No. :  
E-mail Address :  
Plant Location :

**1. Type of Industry / Application (Check as appropriate)**

Mineral Oils Purification	?	Paint & Varnish	?
Bio-diesel Production	?	Ink	?
Wine Production	?	Biopharmaceuticals	?
Distillery	?	Human Blood	?
Fruit Juice Production	?	Virus Recovery	?
Vegetable Oil Refining	?	Cell Debris	?
Cocoa Butter Production	?	Chemical Process	o
Lubricating Oil	?	Others (Specify)	o
Fuel Oil	?	_____	



Heavy Liquid Phase- 1 Technical Name : \_\_\_\_\_  
Lower Explosive Limit (LEL) : \_\_\_\_\_ % v/v  
Upper Explosive Limit (UEL) : \_\_\_\_\_ % v/v  
Flash Point : \_\_\_\_\_ °C  
Auto-ignition Temperature : \_\_\_\_\_ °C

Light Liquid Phase- 2 Technical Name : \_\_\_\_\_  
Lower Explosive Limit (LEL): \_\_\_\_\_ % v/v  
Upper Explosive Limit (UEL): \_\_\_\_\_ % v/v  
Flash Point : \_\_\_\_\_ °C  
Auto-ignition Temperature : \_\_\_\_\_ °C

4. State the limits of variations expected in the feed rate :  
\_\_\_\_\_ m<sup>3</sup>/hr to \_\_\_\_\_ m<sup>3</sup>/hr

5. State the limits of variations expected in the feed composition

Solid Phase : \_\_\_\_\_ % w/v to \_\_\_\_\_ % w/v

Heavy Liquid Phase-1 : \_\_\_\_\_ % v/v to \_\_\_\_\_ % v/v

Light Liquid Phase-2 : \_\_\_\_\_ % v/v to \_\_\_\_\_ % v/v

6. Specific Operational Requirements (if known)

a) Clean-in-Place feature  Yes  No.

b) Sterilization-in-Place feature  Yes  No.

c) Preferred time of stoppage of Super-centrifuge from maximum bowl speed  
\_\_\_\_\_ minutes, after pressing the stop push button.

d) Preferred Maximum Operating Bowl Speed \_\_\_\_\_ rpm

e) Preferred Material of Construction of Process Contact Parts :  
\_\_\_\_\_

f) Preferred Bowl Washing :  Manual  Automatic  None

If automatic, state preferred number of bowls to be simultaneously washed :

One  Two  Five

7. Electrical Power Supply available at Site :

\_\_\_\_\_ Volts \_\_\_\_\_ Hz \_\_\_\_\_ Phase

8. Motor Enclosure Required

- Drip Proof       Flame Proof       TEFC

9. Motor Protection Required

- IP 54       IP 55       Others (give details)

10. Motor Temperature Rating

- 40°C       50°C       Others \_\_\_\_\_°C

11. Motor Insulation Class

- Class B       Class C       Class F  
 Others (give details) \_\_\_\_\_

12. Turn-key Systems required on Skid-Mounted basis (Check as applicable)

- a) ENBLOC – Units for Mineral Oil Purification     Yes       No

If Yes : Processing Capacity Required : \_\_\_\_\_ t/hr or m<sup>3</sup>/hr

Name/Type of Mineral Oil : \_\_\_\_\_

- b) VEGETABLE-OIL-REFINING PLANTS :  Yes       No

If Yes then click :

- For Technical Questionnaire of Vegetable Oil Refining Plants.

13. Remarks or any additional information : \_\_\_\_\_

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