TECHNICAL QUESTIONNAIRE

CUSTOMER INFORMATION

CLIENT NAME:

COMPANY NAME:

ADDRESS:

PHONE: MOBILE:

EMAIL:

APPLICATIONS

Finex Sieves Pvt. Ltd. provides an array of options for powder processing machineries. Please fill out the questionnaire for the application that you are seeking:

1. Size Reduction (Grinding/ Crushing/ Pulverizing)
2. Screening/ Sieving
3. Mixing
4. Granulation/ Pelletizing
5. Drying
6. Dust Collection System
7. Conveying Systems

SIZE REDUCTION (GRINDING/ CRUSHING/ PULVERIZING)

1.	Class / Category	☐ Chemical ☐ Food ☐ Spices ☐ Pharmaceutical ☐ Herbal	☐ Color ☐ Plastic ☐ Mineral ☐ Cosmetic ☐ Other:
2.	Product Name		
3.	Infeed Size: *(mm, inch or mesh size)*		
4.	Fineness Desired: *(mm, inch or mesh size)*		
5.	Capacity Desired: *(kgs/hr or tons/hr)*		
6.	Product bulk density	(feed) gms/cc	(end/fine) gms/cc
7.	Moisture Content	(initial) %max	(final) % *(if required)*
8.	Hardness: (on moh's scale)	e.g. 1- Tac 2-Gypsum 3-Calsite 4-Flourspar 5-Apatite 6- Felspar 7-Quartz 8-Topaz- 9- Sapphire 10-Diamond	
9.	Temperature at which product gets damaged		
10.	Abrasiveness	☐ Not abrasive ☐ Slightly abrasive	☐ Highly abrasive
11.	Strength	☐Breaks easily ☐Breaks with resistance	☐Quite tough
12.	Nature of feed material	☐ Lumpy ☐ Flakes ☐ Granules	☐ Other:
13.	Type of Process	☐ Batch ☐ Continuous	
14.	Other properties	☐ Dry ☐ Corrosive ☐ Greasy ☐ Moist ☐ Sticky ☐ Heat-Sensitive ☐ Wet ☐ Fatty ☐ Hygroscopic ☐ Flammable	☐ Explosive ☐ Hazardous ☐ Other:
15.	Presence of foreign substance	☐ Stone ☐ Paper ☐ Magnetic Material ☐ Wood ☐ Glass ☐ Non-Magnetic metal	☐ Fibers ☐ Other
16.	Material of Construction	☐ Mild Steel/Carbon Steel ☐ SS-316 ☐ SS-304 ☐ Other:	
17.	Other Requirements *(please specify)*:		

1.	Product Name		
2.	Product Properties	☐ Free Flowing ☐ Light Powder ☐ Heavy Powder ☐ Sticky ☐ Hygroscopic	☐ Granules ☐ Slurry ☐ Liquids with undissolved solids	
3.	Particle size *(if powder)*		
4.	Abrasiveness	☐ Not abrasive	☐ Slightly abrasive	☐ Highly abrasive
5.	Moisture Content *(%)*		
6.	Viscosity		
7.	Density		
8.	Temperature as sieved		
9.	Capacity *(kgs/hr or tons/hr)*		
10.	Type of Process	☐ Batch ☐ Continuous	
11.	Number of screens	☐ Single Screen ☐ Multiple Screen	
12.	If multiple screens, please specify	Screen 1 Mesh aperture _____ Microns _____ % oversize Screen 2 Mesh aperture _____ Microns _____ % oversize Screen 3 Mesh aperture _____ Microns _____ % oversize	
13.	% of fines permissible in oversize		
14.	Material of Construction	☐ Mild Steel/Carbon Steel ☐ SS-316 ☐ SS-304 ☐ Other:	
15.	Type of Screener	☐ Vibratory ☐ Non-Vibratory ☐ Rotary	
16.	Type of Feeder	☐ Manual ☐ Automatic	
17.	Other Requirements *(please specify)*		

1.	Product Name	Component 1: Component 2: Component 3: Component 4:			
2.	Powder bulk density *(gm/cm³)*	Component 1: Component 2: Component 3: Component 4:			
3.	Product Properties	☐ Dry ☐ Moist ☐ Corrosive ☐ Hygroscopic	☐ Wet ☐ Sticky ☐ Fatty	☐ Greasy ☐ Heat-Sensitive ☐ Flammable	☐ Explosive ☐ Hazardous ☐ Other:
4.	Material of Construction	☐ Mild Steel/Carbon Steel ☐ SS-304		☐ SS-316 ☐ Other:	
5.	Batch size/ Capacity *(liters/ kg)*				
6.	Particle size of feed material				
7.	Type of mixing	☐ Dry Mixing		☐ Wet Mixing	
8.	Type of Process	☐ Batch		☐ Continuous	
9.	Mixing time *(mins)*				
10.	Minimum batch to be mixed *(kgs)*				
11.	Capacity *(kgs/hr)*				
12.	End use of mixed material				
13.	Discharge option	☐ Manual Valve	☐ Pneumatic Valve	☐ Rotary Airlock Valve	
14.	Mixer Design	☐Ribbon Single Mixing		☐Paddle Twin Mixing	
15.	Powder/Liquid Ratio				
16.	Spray nozzle required				
17.	Moisture or liquid additive to be added if any %				
18.	Other Requirements *(please specify):*				

1.	Product Name	
2.	Is the material a mixture?	
3.	If yes, please specify the composition and % of each component	
4.	Nature of the material:	☐ Hazardous ☐ Non-Hazardous
5.	Powder particle size *(micron/mesh)*	☐ 10mesh ☐ 120 mesh ☐ Pan ☐ 45 mesh ☐ 200 mesh ☐ Other: ☐ 80 mesh ☐ 325 mesh
6.	Desired Pellet size *(mm)*	
7.	Aerated Bulk Density *(gm/cm³)*	
8.	Moisture content (%)	
9.	Application	
10.	Binder to be used	
11.	Drying Temperature	
12.	Hardness of pellets	
13.	Spraying system required	
14.	Material of Construction	☐ Mild Steel/Carbon Steel ☐ SS-316 ☐ SS-304 ☐ Other:
15.	Other Requirements *(please specify)*	

1.	Product to be dried			
2.	Moisture content	Initial	% Final	%
3.	Production Rate *(kg/hr)*			
4.	Method of measuring moisture content			
5.	Temperature at which product should be heated			
6.	Product properties	☐ Hygroscopic ☐ Free-flowing ☐ Cake ☐ Sticky ☐ Granular ☐ Friable ☐ Pasty ☐ Crystalline ☐ Deliquescent		
7.	Does material contain bound moisture?	☐ Yes If yes, please specify the moisture content ☐ No		
8.	Temperature at which material gets damaged			
9.	Specific heat of dry product			
10.	Specific gravity of dry product			
11.	Bulk density *(gm/cm³)*			
12.	Particle size analysis			
13.	Any other unique properties of the product			
14.	Material of construction	☐ Mild Steel/Carbon Steel ☐ SS-316 ☐ SS-304 ☐ Other:		
16.	Heating Media- direct fired	☐ Oil ☐ LPG ☐ Coal		
17.	Heating Media-indirect fired	☐ Electric ☐ Steam ☐ Thermic Fluid ☐ Oil ☐ LPG		
18.	Steam pressure available			
19.	Maximum air temp. attainable			
20.	Is cooling required after drying?	☐ Yes ☐ No		
21.	Accessories required	☐ Air Filter ☐ Filter Bags ☐ Cyclone Separator ☐ Wet Scrubber		
22.	Controls required	☐ Temperature ☐ Pressure ☐ Feed Rate		
23.	Indicators required	☐Temperature ☐Pressure		
24.	Safety Instruments/interlock required?	☐ Yes ☐ No		
25.	Ambient conditions-min. temperature			
26.	Type of dryer required	☐ Rotary ☐ Vibro Fluidized Bed ☐ Flash ☐ Fluidized Bed ☐ Conveyorised ☐ Spray		
27.	Other Requirements *(please specify)*			

DUST COLLECTION SYSTEM

1.	Product Name		
2.	Application	☐ Food ☐ Pharmaceutical	☐ Chemical ☐ Other
3.	Location of the filter	☐ Indoor	☐ Outdoor
4.	Insulated	☐ Yes	☐ No
5.	Type of Solid/ Dust		
6.	Fineness of dust particles *(micron/mesh)*		
7.	Dust Characteristics	☐ Abrasive ☐ Oily ☐ Clogging ☐ Toxic ☐ Corrosive	☐ Hygroscopic ☐ Pyrophoric ☐ Electrostatically charged ☐ Other
8.	Process End use	☐ Waste dust	☐ Product Recovery
9.	Operating temperature *(°C)*		
10.	Maximum Temperature *(°C)*		
11.	Design pressure		
12.	Humidity *(%)*		
13.	Inlet dust load *(g/m³)*		
14.	Required outlet emission *(mg/m³)*		
15.	Horizontal and vertical distance from equipment's emitting dust *(m/ft)*		
16.	Bag filter model		
17.	Dimensional sales print		
18.	Filter area		
19.	Filter rate		
20.	Type of bags		
21.	No. of bags		
22.	Size of bag		
23.	Material of construction	☐ Mild Steel/Carbon Steel ☐ SS-304	☐ SS-316 ☐ Other:
24.	Compressed air required		
25.	No. of valves		
26.	Pressure drop across bag filter		
27.	Discharge of dust		
28.	Other Requirements *(please specify)*		

CONVEYING SYSTEMS

1.	Product Name	
2.	Product Properties	☐ Hygroscopic ☐ Free-flowing ☐ Cake ☐ Sticky ☐ Granular ☐ Friable ☐ Pasty ☐ Crystalline ☐ Deliquescent
3.	Product particle size	
4.	Granule size	
5.	Bulk density *(g/cm³)*	
6.	Capacity *(kgs/hr or tons/hr)*	
7.	Application	
8.	Discharge Height	
9.	Conveying distance	
10.	Material of Construction	☐ Mild Steel/Carbon Steel ☐ SS-316 ☐ SS-304 ☐ Other:
11.	Type of Conveyor	☐ Belt Conveyor ☐ Rotary Airlock Valve ☐ Bucket Elevator ☐ Vibrating Feeder ☐ Screw Conveyor
12.	Other requirements *(please specify)*	