STEER

Co-rotating Twin screw extruder Enquiry Form

Please tell us about your company details

Name of the client: Gulf Additives LLC

Building No: _____ Street: Road No. 4 C

City/Town: Rusayd State: Muscat Pin code: 117

Telephone: +95824448258

Email: sushilkumarb@otegroup.com

Website: Gulf Additives.com

Site Information

Ambient temperature at site: - Min 25 deg C Max 45 deg C

Altitude: - _____Meters above sea level

Relative humidity at site: - Min 25 % Max 55 %

Power voltage/Hz: - 440 Voltage 50 Hz

3 Phase, 1 neutral: - ◉ Yes ○ No

Cooling water available: - ◉ Yes ○ No

Raw water available: - ◉ Yes ○ No

Pneumatic air available: - ◉ Yes ○ No

Place of machine installation: - ○ Hazardous ◉ Non hazardous

Please specify IP protection required: - ◉ Standard IP55 ○ Special IP___

___Main Motor ___Lube oil pump ___Small motors ___Junction box

___Heaters and Thermocouple ___PLC panel ___Drive panel

Scope of supply and work

☐Only extruder

■Any addition please select below,

Extruder supplier scope:

☐Mezzanine floor ☐Refill hoppers ☐Conveying Gravimetric feeder

■ Volumetric feeder ☐ Screen changer ☐Melt pump ☐Classifier

■ Water bath ■ Air knife Pelletizer ■Under water pelletizer

☐FG storage and conveying ☐25Kg/Jumbo bag packing and sealing

Extruder supplier work: -

☐Complete plant engineering ☐ Cable supply, laying and termination

☐ Upstream and downstream equipment supervision work

☐ Utility piping supply and connection ☐ De-dusting system and ducting work

Note: - Manpower and material handling resources need to be arranged by customer.

Application details

Basic recipe details: :

_____

End Application details:

■Industrial application ■Home appliance ☐Electrical and electronics

☐Automotive ☐Housing and construction ☐Packaging ☐Specialty

End product usage:

■ Extrusion ☐Molding

End product form:

■ Granules ☐ Sheet

End product testing method:

☐ ASTM ■ISO ☐Will be provided before contract

Bench mark available:

☐ Yes ☐No ☐Will be provided before contract

If yes, please specify:

____MFI ____Impact ____Tensile ____Flexural ____ Flammability ☐Will be provided before contract

If any other, please specify:

Muffel Furness

Lab trial required:

■ Yes ☐No

If yes, please specify location for the lab trial:

■STEER India ☐ STEER Japan ☐STEER china ☐STEER America

Willing to send sample along with MSDS to specified location:

■Yes ☐No

Raw material details

Formulation-1

Sl	Raw material Name	Bulk density gram/cc	Physical form(Flakes/granules/powder/liquid)	Size in mm/micron/ Cps	Feed rate %
1	LLDPE	0.590	Powder		22.4
2	CA5	0.320	Powder		0.5
3	a/o	-	Powder		0.1
4	CaCO3	1.3	Powder		52
5	TiO2	3.65	Powder		25
6					
7					

Formulation-2

Sl	Raw material Name	Bulk density gram/cc	Physical form(Flakes/granules/powder/liquid)	Size in mm/micron/ Cps	Feed rate %
1	LLDPE	0.590	Powder		37.65
2	CA5	0.32	Powder		0.5
3	a/o	-	Powder		0.1
4	CaCO3	1.3	Powder		30
5	Red 53:1	1.5	Powder		18.25
6	Red 57:1	1.5	Powder		3.5
7	Wax	0.6	Powder		10

Raw material details

Formulation-3

Sl	Raw material Name	Bulk density gram/cc	Physical form(Flakes/granules/powder/liquid)	Size in mm/micron/ Cps	Feed rate %
1	LLDPE		Powder		40.4
2	CA5		Powder		0.5
3	A/O		Powder		0.1
4	CaCO3		Powder		40
5	PY17 (Yellow Pigment)		Powder		7
6	PY13 (Yellow Pigment)		Powder		7
7	Wax		Powder		5

Raw material storage: ☐Bulk silo ■Inside warehouse

Type of screening required: ☐Magnetic separator ☐Metal separator

Extruder details

Extruder specification required from: ■STEER ☐Customer

CustomerIf customer, please specify as below:

Platform:☐ Omega (Do/Di 1.71) ☐ Mega (Do/Di 1.55) ☐Alpha(Do/Di1.49)

Type of process: ■ Premix ☐ Split feed

Expected throughput: 400 kg/hr

Screw diameter: _____mm

Screw speed: _____rpm

Motor: _____kW

Motor type: ☐ Water cooled ■ Air cooled ☐Synchronous servo motor

Nominal torque: _____Nm/shaft

Specific torque: _____Nm/cm3

Gearbox make preferred: ☐ PIV ☐Zambello ☐Eisenbeiss ☐STEER

Note: - Gearbox cooling by default on right side look from die end

Note: - STEER gearbox available up to 60 mm extruders

No of side feeder required: -

■ 1 ☐ 2 ☐ 3 if more please specify _____

Preferred L/D: - _____

Type of barrels: - ☐4D ☐ 6D

Maximum barrel temperature: - 300 deg C

Barrel, Element and Shaft MOC preference: ■ STEER ☐ Customer specified

If customer specified please provide below details,

Processing zone details,

Barrel Length*															
Barrel Type**															
Barrel preffered MOC***															
Element Preffered MOC***															
Shaft MOC***															

* 4D or 6D length

** **1**-Intake, **2**-Closed, **3**-Side feed, **4**-ATM Vent, **5**-Vaccum Vent , **6**-Liquid injection

*** Customer to specify required MOC

Extruder details

Drive and PLC panel cooling type:-	■ Fan cooled	☐ Air Condition
Cable entry to Drive and PLC panel:–	■ Top	☐ Bottom
Cable exit from Drive and PLC panel:-	■ Top	☐ Bottom

Note: - Cable exit will be from the side of the panel for PLC panel supplied with plug and play type cables

Electrical STD preference if any please specify:

_____

_____

Preferred operating interface: -

☐Basic push button type ■ HMI type ☐ Industrial PC type

Operating side when viewed from Die end	◉ Right side	○ Left side
TCU position when viewed from Die end	○ Right side	◉ Left side
Vacuum system when viewed from Die end	○ Right side	◉ Left side
Side feeder when viewed from Die end	○ Right side	◉ Left side

Please specify/attach additional information in case of customization required :

_____

_____

Other details

Extruder maintenance resource:

■ In house ☐ External/contract ☐ NA

Extruder maintenance resource:

☐ Unskilled ■ Semi-skilled ☐ Skilled ☐ NA

Type of training required from Extruder supplier:

☐ TSE operation ☐ TSE maintenance ☐ Application processing ☐ NA

Color coding:

■ Standard, Machine base, motor and Panels:RAL7035, Gearbox and feeders: RAL5009, All types of Gaurds: RAL1003,

☐ Non Standard, please specify details_____

Extruder Manuals:

☐ Standard English ☐ Other language, please specify_____

Project details

Expected finalization time line: _____ Weeks

Expected delivery time: Mar-25 Weeks