

URANIUM CORPORATION OF INDIA LTD.
(A Government of India Enterprises)
Tummalapalle Uranium Project
(P.O.) M. C. Palle, Vemula (M), YSR District, Andhra Pradesh – 516 349

Annexure-1
Page (1 of 3)

Public Tender No. : **TMPL/PUR/090/246**
Item: Rotary Valves

M A T E R I A L D E T A I L S

S. No	Material Description	Qty reqd.
1	Rotary valves against the tag no: 14RV-1A1/1A2/1B1/1B2 and 14RV-2A1/2A2/2B1/2B2 for handling material of Bulk Density: 550 kg/m3	8 no's

Technical Details for ROTARY VALVES

S.No	Description	Unit	Requirments.
	Tag no:		14 RV-1A1/ 1A2/ 1B1/ 1B2 & 14 RV-2A1/ 2A2/ 2B1/ 2B2
	<u>Total Quantity required</u>		08 no's
	Equipment. No		14 RV-1A1/ 1A2/ 1B1/ 1B2 & 14 RV-2A1/ 2A2/ 2B1/ 2B2
1	Equipment ame		Rotary Feeder
2	Qty		8 no's
3	Function	No's	Controlled Feed to Enmasse Conveyor
4	Manufacturer/ Model No:		DEPL/350
5	Material Data		
6	Material handled		Sodium Bi carbonate/ Light Soda Ash
7	Bulk Density	Kg/m3	550
8	Capacity Normal/Design	TPH	8/15
9	Temp.(Normal/ Design)	Deg. "C"	ATM
10	Abrasive		Moderate
11	hygroscopic		High
12	Corrosive		Moderate
13	particle size	WT %	+16 Mesh 0.6, +44 Mesh 1.18, +72 Mesh 3.87, +100 Mesh 3.46, +200 Mesh 33.05 & -200 Mesh 57.79
14	Moisture content		Less than 0.1% mass
15	Angle of repose	Deg	32-35

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16	Duty/ Installation		Continous/ Indoor
17	General data		
18	Type		Drough Through
19	Size		350 NB
20	Capacity MAX/ Nor./ Min	TPH	3 -7.75
21	Speed Rpm	rpm	18 RPM
22	VFD Driven		YES
23	Installation		INDOOR
24	Flange Drilling		ANSI B 16.5, #150
25	Construction		
26	Housing		Fabricated
27	Rotor		Fabricated
28	Rotor Type	mm	Pocket type rotor
29	Rotor Diameter		350
30	Seal Type		Gland Sealing
31	Material of Construction		
32	Housing	mm thk	SS mm 8 THK-304
33	Rotor	mm thk	SS mm 10 THK Vertical plates welded o pipe and SS-304 40
34	Shaft	mm thk	SS mm 55 Dia shaft at centre ad 45 Dia at Brg.
35	Drive unit		
36	Type		Direct
37	Absorbed Power at full load	KW	To be decided by the bidder
38	Installed Motor Rating	KW	To be decided by the bidder
39	Type of Motor		To be decided by the bidder
40	Degree of Protection		IP55
41	Type of speed Controllor		VFD
42	Gear box size/ Ratio		To be decided by the bidder
43	Coupling (Type/ Rating)		Geared/ at the time of detail engineering
44	Coupling Service Factor		1.5
45	Bearings		
46	Type		Roller Bearing (To be decided by the bidder)
47	Make		SKF/ FAG (To be decided by the bidder)
48	Model		To be decided by the bidder

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49	Weights		To be decided by the bidder
50	Weight of total Unit	Tons	To be decided by the bidder
51	Weight of the heaviest components	Tons	To be decided by the bidder
52	Accessories		
53	Speed Switch		To be Considered in the price quotation
54	Rotor Purge		To be Considered in the price quotation