

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

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Public Tender No. : **TMPL/PUR/315/225**

Item: Annual rate contract for supply of mechanical seals of different pumps

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

<u>S.No</u>	<u>Description of Mechanical Seal</u>	<u>Type and Service of Seal</u>	<u>Quantity Required (tentative)</u>
	<u>Roto Pumps</u>		
1	Tag No: 8P-1A/ 1B, 8P-2A/ 2B, 8P-11A/ 11B & 8P-9A/9B/9C/9D Pump Model: RLAB-571-HOZZ1Z Pump Make: ROTO Pump Liquid Handled: SDU Slurry Specific Gravity: 1.40 , PH: (Slightly Alkaline) 10 , % Solids: 30 , Temp: 50-65°C , Viscosity: 15-20 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: SDU Thickener U/F pumps, Product Belt Filter Transfer Pump, SDU Spillage Thickener U/F pumps, SDU Slurry Transfer Pumps	8
2	Tag No: 14P-12A/ 12B & 14P-12C/ 12D Pump Model: RLAB-591-ROZZIZ Pump Make: ROTO Pump Liquid Handled: Flocculant stock solution Specific Gravity: 1.2 , PH: (Slightly Alkaline) 10 , % Solids: 25 , Temp: 40°C , Viscosity: 35 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Flocculant Stock Solution Transfer Pump	4
3	Tag No: 14P-13A/ 13B/ 13C/ 13D , Pump Model: RLAB-571-ROZZ1Z Pump Make: ROTO Pump Liquid Handled: Flocculant stock solution Specific Gravity: 1.20 , PH: (Slightly Alkaline) 10 , % Solids: 10 , Temp: 40°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Flocculant Dosing Pump To Neutral Belt Filters feed	4
4	Tag No: 14P-13E/ 13F , Pump Model: RDAA-531-ROZZIZ Pump Make: ROTO Pump Liquid Handled: Flocculant diluted solution Specific Gravity: 1.20 , PH: (Slightly Alkaline) 10 , % Solids: 10 , Temp: 40°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Flocculant Dosing Pump to Spillage Thickener in Leach repulpers area	2
5	Tag No: 14P-13G/13H, 14P-13S/13T & 14P-13U/13V Pump Model: RDAA491-ROZZIZ Pump Make: ROTO Pump Liquid Handled: Flocculant diluted solution Specific Gravity: 1.20 , PH: (Slightly Alkaline) 10 , % Solids: 10 , Temp: 40°C , Viscosity: 20 Cp	Service: Flocculant Dosing Pump to Clarifier in Clarification area, Flocculant Dosing Pump to SDU Spillage Thickener, Flocculant Dosing Pump to SDU Product Holding Tank	8

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6	Tag No: 14P-13 I/J/K/L/M/N/O/P , Pump Model: RDAA-551-ROZZIZ Pump Make: ROTO Pump Liquid Handled: Flocculant diluted solution Specific Gravity: 1.20 , PH: (Slightly Alkaline) 10 , % Solids: 10 , Temp: 40°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Flocculant Dosing Pump To Leach Belt Filters feed	8
7	Tag No: 14P-13Q/ 13R , Pump Model: RLAB-571-ROZZIZ Pump Make: ROTO Pump Liquid Handled: Flocculant diluted solution Specific Gravity: 1.20 , PH: (Slightly Alkaline) 10 , % Solids: 10 , Temp: 40°C , Viscosity: 20 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Flocculant Dosing Pump to SDU Product Thickener	2
8	Tag No: 12P-5A/ 5B , Pump Model: RMAB-602 - R7 CD 1D Pump Make: ROTO Pump Liquid Handled: Dosing pump in causticization Specific Gravity: 1.20 , PH: (Slightly Alkaline) 10 , % Solids: 10 , Temp: 40°C , Viscosity: 20 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Dosing pump in causticization	2
	<u>KSB Pumps</u>		
9	Tag No: 15P-2A/ 2B/ 2C, 15P- 1A/ 1B Pump Model: MCPK-125-100-250 CC NP Pump Make: KSB Pump Liquid Handled: Clarified Pregnant Liquor Specific Gravity: 1.25 , PH: (Slightly Alkaline) 10 , % Solids: 5 , Temp: 90°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: RDS tank to Stronge Liquor Tank	5
10	Tag No: 15P-3A/ 3B , Pump Model: MCPK-065-040-200 CC NP Pump Make: KSB Pump Liquid Handled: strong Liquor Specific Gravity: 1.40 , PH: (Slightly Alkaline) 10 , % Solids: 5 , Temp: 90°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Transferring Strong Liquor Tank to Precipitation Tanks	2
11	Tag No: 15P-1C/ 1D & 12P- 6B Pump Model: MCPK-100-065-315 NP Pump Make: KSB Pump Liquid Handled: Clarified Pregnant Liquor(CPL) Specific Gravity: 1.25 , PH: (Slightly Alkaline) 10 , % Solids: 5 , Temp: 90°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Transferring from CPL Tank to Precipitation Tanks	3

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12	Tag No: 15P-1E/ 1F , Pump Model: MCPK-050-032-250 CC Pump Make: KSB Pump Liquid Handled: Clarified Pregnant Liqour(CPL) Specific Gravity: 1.25 , PH: (Slightly Alkaline) 10 , % Solids: 5 , Temp: 90°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Transferring from CPL Tank to Product cake repulping tank	2
13	Tag No: 7P-1A/ 1B/ 1C & 7P- 7A/ 7B Pump Model: KWPZ-065-315 Pump Make: KSB Pump Liquid Handled: Unclarified Pregnant Liqour(UPL) & Clarified Pregnant Liqour(CPL) Specific Gravity: 1.20 , PH: (Slightly Alkaline) 10 , % Solids: 10 , Temp: 50-60°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Transferring from UPL Tank to Precipitation Tanks, Transferring from CPL to Precipitation Tanks	2
	<u>Johnson Pumps</u>		
14	Tag No: 8P-7A/ 7B , Pump Model: CN-25-125-G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: SDU Filtrate Specific Gravity: 1.2 , PH: (Slightly Alkaline) 10 , % Solids: 5 , Temp: 50-65°C , Viscosity: 5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Filtrate Pump	2
15	Tag No: 8P-13B , Pump Model: CN-65-125-G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: SDU Filtrate Specific Gravity: 1.2 , PH: (Slightly Alkaline) 10 , % Solids: 5 , Temp: 50-65°C , Viscosity: 2 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Filtrate Pump	2
16	Tag No: 8P-13A, 8P-6C/D Pump Model: CCR-32-160-R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: H2 So4 (95% Concentric) Specific Gravity: 1.35 , PH: Highly acidic , % Solids: 0 , Temp: Ambient°C , Viscosity: 1.5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: H2 So4 Transfer pumps	2
17	Tag No: 8P-13A, 8P-6C/D Pump Model: CCR-32-160-R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: 45% Caustic Lye Specific Gravity: 1.35 , PH: Highly acidic , % Solids: 0 , Temp: Ambient°C , Viscosity: 1.5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Caustic Lye Transfer/ unloading pumps	2

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18	Tag No: 7P-1A/ 1B, 6P- 12 A/ 12B/ 12C/ 12D Pump Model: CN-40-160-G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: Water Specific Gravity: 1.0 , PH: 6.5-7.5 , % Solids: 0 , Temp: 50-60°C , Viscosity: 1.0 Cp	Type: <i>Single Mechanical Seal</i> Service: Filter Cake Wash Pump	2
19	Tag No: 7P-9A/ 9B, 7P- 9C/ 9D Pump Model: CCR-80- 250 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: CPL & UPL Specific Gravity: 1.10 , PH: 6.5-7.5 , % Solids: 10 , Temp: 50-60°C , Viscosity: 5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: CL & UPL Transfer pumps	2
20	Tag No: 7P-3A/ 3B, Pump Model: CCR-80-160 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Pre Coat Filtrate Specific Gravity: 1.05 , PH: 6.5-7.5 , % Solids: 5 , Temp: AMBIENT°C , Viscosity: 5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Filtrate pumps	2
21	Tag No: 30P-1A/B, 28P-1A/1B/1C, 28P-2A/ 2B & 30P-2A/ 2B Pump Model: CCR-100-250 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Water Specific Gravity: 1.05 , PH: 6.5-7.5 , % Solids: 0 , Temp: 60-70°C , Viscosity: 3-5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Industrial Water Pump, COOLING WATER Pumps to SSR & CCR,	2
22	Tag No: 13P-28A/ 28B/ 28C Pump Model: CCR-100-250 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Glycol Specific Gravity: 1.15 , PH: 5.5-7.8 , % Solids: 0 , Temp: -5°C , Viscosity: 1.65 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Glycol Transfer Pumps	3
23	Tag No: 12P-6B Pump Model: CCR-50C-160 R6 M2 L3 Pump Make: Johnson Pump Liquid Handled: Pressure filter filtrate Specific Gravity: 1.2 , PH: (Slightly Alkaline) 10 , % Solids: 0 , Temp: 60-70°C , Viscosity: 5.0 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Dilute Caustic Feed Pumps	2

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24	Tag No: 25P-1A/ 1B, 25P- 2A/2B Pump Model: CCR-80-315 R6 M2 L3 Pump Make: Johnson Pump Liquid Handled: Water Specific Gravity: 1.05 , PH: 6.5-8.5 , % Solids: 10 , Temp: 60°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Degasser water pumps, Industrial Water Pumps	2
25	Tag No: 7P-1A/ 1B/ 1C Pump Model: CCR-40C 160 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Unc clarified pregnant solution Specific Gravity: 1.12 , PH: Alkaline , % Solids: 10 , Temp: 70°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Unc clarified Pregnant solution pumps	2
26	Tag No: 7P-5A/ 5B Pump Model: CCR-25-125 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Unc clarified pregnant solution Specific Gravity: 1.12 , PH: Alkaline , % Solids: 10 , Temp: 70°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Unc clarified Pregnant solution pumps	2
27	Tag No: 7P-7A/ 7B Pump Model: CCR-50C-160 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Clarified pregnant Liquor Specific Gravity: 1.12 , PH: Alkaline , % Solids: 10 , Temp: 70°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Clarified Pregnant solution pumps	2
28	Tag No: 8P-5A/ 5B, 8P-6A/ 6B Pump Model: CCR-80C-200 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Pure Hot Clarified Liquor Specific Gravity: 1.12 , PH: Alkaline , % Solids: 5 , Temp: 50-65°C , Viscosity: 5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Clarified Hot Liquor Transfer Pump	2
29	Tag No: 12P-11 A/ 11B Pump Model: CCR-32-125 R6 M2 L3 Pump Make: Johnson Pump Liquid Handled: Foul Condensate Specific Gravity: 1.05 , PH: Nuetral , % Solids: 0 , Temp: 60°C , Viscosity: 8 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Foul Condensate Feed Pump	2
30	Tag No: 10P-1 A/ 1B Pump Model: CCR-25-160 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Fumes Condensate Specific Gravity: 1.14 , PH: Alkaline , % Solids: 0 , Temp: 50-65°C , Viscosity: 1 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Autoclave Scrubbing pumps	2

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31	Tag No: 26P-12C/D, 24P-12A/B, 26P-5A/5B/5C/5D Pump Model: CCR-125-400 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Monitoring pond WATER, Thickener O/F Specific Gravity: 1.05 , PH: (Slightly Alkaline) 8-9 , % Solids: 10 , Temp: 60-65°C , Viscosity: 2-5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Monitoring pond WATER Pumps , Industrial Water Pumps, Thickener O/F	2
32	Tag No: 26P-5E/F Pump Model: CN-65-315 G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: Monitoring pond WATER Specific Gravity: 1.05 , PH: (Slightly Alkaline) 8-9 , % Solids: 10 , Temp: 60-65°C , Viscosity: 5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: ETP Thickener O/F Flushing Pumps	2
33	Tag No: 24P-6E/F & 24P-6A/6B/ 6B1 Pump Model: CN-80-400 G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: DM water Make-up Specific Gravity: 1.05 , PH: (Slightly Alkaline) 8-9 , % Solids: 10 , Temp: 60-65°C , Viscosity: 5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: DM water Make-up& Industrial Water Pumps	5
34	Tag No: 24P-3A/B Pump Model: CN-200-250 G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: RGSF Back wash Specific Gravity: 1.05 , PH: (Slightly Alkaline) 8-9 , % Solids: 10 , Temp: 60-65°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: RGSF Back wash	2
35	Tag No: 24P-7A/B Pump Model: CN-100-315 G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: PSF Backwash Specific Gravity: 1.05 , PH: (Slightly Alkaline) 8-9 , % Solids: 10 , Temp: 60-65°C , Viscosity: 10 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: PSF Backwash, Industrial water pumps UCTL -1	2
36	Tag No: 30P-1C/1D Pump Model: CCR-40-250 R1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Drinking Water Specific Gravity: 1.0 , PH: (Nuetral) 6-8 , % Solids: 0 , Temp: 60°C , Viscosity: 1.0 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Drinking Water Distribution Pump	2

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37	Tag No: 24P-6C/D Pump Model: CN-100-400 G6 M2 L3 Pump Make: Johnson Pump Liquid Handled: COOLING WATER Specific Gravity: 1.0 , PH: (Nuetral) 6-8 , % Solids: 0 , Temp: 70°C , Viscosity: 1.0 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Cooling make-up Pumps	2
38	Tag No: Nil Pump Model: CCR-32-200 R6 M2 L3 Pump Make: Johnson Pump Liquid Handled: Mother Liquor Slurry (30% Na2So4 Aqueous solution) Specific Gravity: 1.0 , PH: (Slightly Alkalil) 8-10 , % Solids: 30 , Temp: 70°C , Viscosity: 5.0 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Carbonation pumps, Mother liquor feed pumps	2
39	Tag No: Nil Pump Model: CN-50-250 G1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Cooling Pumps Specific Gravity: 1.0 , PH: (Nuetral) 6-8 , % Solids: 0 , Temp: 70°C , Viscosity: 1 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Hot water pumps / Cooling water pumps/Decant water pumpss	2
40	Tag No: Nil Pump Model: CN-200-315 G1 M2 L4 Pump Make: Johnson Pump Liquid Handled: Nuetral Thickener o/F Specific Gravity: 1.0 , PH: (Nuetral) 6-8 , % Solids: 0 , Temp: 70°C , Viscosity: 1 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: N T O pumps UCTL 1	2
41	Tag No: Nil Pump Model: CN-80-250 G1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Make up water pump Specific Gravity: 1.0 , PH: (Nuetral) 6-8 , % Solids: 0 , Temp: 70°C , Viscosity: 1 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Make up water pump	2
42	Tag No: Nil Pump Model: CN-150-400 G1 M2 L3 Pump Make: Johnson Pump Liquid Handled: Tailing Thickener o/F Specific Gravity: 1.0 , PH: (Nuetral) 6-8 , % Solids: 0 , Temp: 70°C , Viscosity: 1 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: TTO pumps UCTL -1	2
43	Tag No: Nil Pump Model: CCR-32-250 R1 M2 L6 Pump Make: Johnson Pump Liquid Handled: Industrial Water Specific Gravity: 1.0 , PH: (Nuetral) 6-8 , % Solids: 0 , Temp: 70°C , Viscosity: 1 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: Dust suspension pumps	2

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44	Tag No: Nil Pump Model: CCR-45-125 R1 M2 L4 Pump Make: Johnson Pump Liquid Handled: H2 So4 (95% Concentric) Specific Gravity: 1.2 , PH: (Highly Acidic) , % Solids: 0 , Temp: Ambient °C, Viscosity: 1.5 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: H2So4 Unloading pumps	2
<u>MICROFINISH Pumps</u>			
45	Tag No: 13P-1/ 1S Pump Model: 2K,3X2-13(0) Pump Make: MicroFinish Pump Liquid Handled: i) Sodium Sulphate Slurry (10% Sodium sulphate, 5.5% Sodium hydroxide & Sodium carbonate) Specific Gravity: 1.25 , PH:(Slightly Alkaline) 10 , % Solids: 30 , Temp: 34 °C, Viscosity: 2 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Feed Pump to VFD,	2
46	Tag No: 13P-4/4S Pump Model: 2K,3X2-13(0) Pump Make: Johnson Pump Liquid Handled: Sodium Sulphate Slurry (0.2% Sodium sulphate, 5.5% Sodium hydroxide & Sodium carbonate,25% Suspended Glauber salt Crystles) Specific Gravity: 1.2 , PH:(Slightly Alkaline) 10 , % Solids: 30 , Temp: 50 °C, Viscosity: 10 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Crystalline transfer Pump	2
47	Tag No: 13P-5/5S Pump Model: 2K,3X2-13(0) Pump Make: Johnson Pump Liquid Handled: Filtrate(0.2% Sodium sulphate, 7.2% Sodium hydroxide & 2.4% Sodium carbonate, 6% Suspended Glauber salt Crystles) Specific Gravity: 1.2 , PH:(Slightly Alkaline) 10 , % Solids: 13 , Temp: 50 °C, Viscosity: 5 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Crystalline transfer Pump	2

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48	Tag No: 13P-12/12S, 13P-16/16S Pump Model: 2K,3X1.5- 13(0) Pump Make: MicroFinish Pump Liquid Handled: Nuetralised Na₂So₄ Slurry (47% Na₂So₄ Solution , Suspended Solids 23%) Specific Gravity: 1.5 , PH:(Slightly Alkaline) 10 , % Solids: 45 , Temp: 80°C , Viscocity: 3-10 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Forced Circulation Calandria-1 Slurry Transfer Pump, Forced Circulation Calandria-1 Recirculation Pump	2
49	Tag No: 13P-18/18S Pump Model: 2K,3X1.5- 10A(0) Pump Make: MicroFinish Pump Liquid Handled: Mother Liquor Slurry(30% Na₂So₄ Aqueous solution) Specific Gravity: 1.4 , PH:(Slightly Alkaline) 10 , % Solids: 30 , Temp: 70°C , Viscocity: 5 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: MS TANK	2
50	Tag No: 13P-9/9S Pump Model: 2K,2X1- 10A(0) Pump Make: MicroFinish Pump Liquid Handled: Nuetralised Na₂So₄ Slurry (38% Na₂ So₄ Solution) Specific Gravity: 1.4 , PH:(Slightly Alkaline) 10 , % Solids: 30 , Temp: 45°C , Viscocity: 5 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Evaoparator feed pumps	2
51	Tag No: 13P-14/14S Pump Model: 2K,2X1- 10A(0) Pump Make: MicroFinish Pump Liquid Handled: Mother Liquor Slurry(38% Na₂So₄ solution, 8% Suspended solids & Dissolved salts of Na₂So₄, Suspended Na₂So₄ Crystals) Specific Gravity: 1.35 , PH: 6-8 , % Solids: 30 , Temp: 80°C , Viscocity: 5 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Molten GS transfer Pump	2
52	Tag No: 13P-2/2S Pump Model: 2K,4X3-10(0) Pump Make: MicroFinish Pump Liquid Handled: Sodium Sulphate Slurry (10% Sodium sulphate, 5.5% Sodium hydroxide & Sodium carbonate) Specific Gravity: 1.20 , PH:(Slightly Alkaline) 10 , % Solids: 20 , Temp: 40°C , Viscocity: 5 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Flah Vessel Transfer Pump	2

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53	Tag No: 13P-8/8S, 13P-13/13S Pump Model: 0K,1.5X1- 5 Pump Make: MicroFinish Pump Liquid Handled: Process Condensate Specific Gravity: 1.00, PH:06-08 % Solids: 0 , Temp: 60°C , Viscosity: 1 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Steam Condensation pump	2
54	Tag No: 13P-17/17S Pump Model: 0K,1.5X1- 6(0) Pump Make: MicroFinish Pump Liquid Handled: Process Condensate Specific Gravity: 1.00, PH:06-08 % Solids: 0 , Temp: 60°C , Viscosity: 1 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: MC Tanks Transfer pump	2
55	Tag No: 13P-6/6S Pump Model: 1K,3X1.5-6(0) Pump Make: MicroFinish Pump Liquid Handled: Sodium Sulphate Slurry (30.4% Sodium sulphate, 1.5% Sodium hydroxide & Sodium carbonate,4.6% Suspended Glauber salt Crystles) Specific Gravity: 1.40, PH:(Slightly Alkaline)10, % Solids: 40 , Temp: 10°C , Viscosity: 10 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Molten GS Transfer pump	2
56	Tag No: 13P-7/7S Pump Model: 3K,8X6-14A(0) Pump Make: MicroFinish Pump Liquid Handled: Sodium Sulphate Slurry (30.4% Sodium sulphate, 1.5% Sodium hydroxide & Sodium carbonate,4.6% Suspended Glauber salt Crystles) Specific Gravity: 1.40, PH:(Slightly Alkaline)10, % Solids: 40 , Temp: 10°C , Viscosity: 10 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Molten GS Circulation pump	2
57	Tag No: 13P-3/3S Pump Model: 3K,10X8-16H(0) Pump Make: MicroFinish Pump Liquid Handled: Sodium Sulphate Slurry (0.2% Sodium sulphate, 5.5% Sodium hydroxide & Sodium carbonate,25% Suspended Glauber salt Crystles) Specific Gravity: 1.20, PH:(Slightly Alkaline)10, % Solids: 40 , Temp: 50°C , Viscosity: 10 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Crystallisation Re-Circulation pump	2

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(P.O.) M. C. Palle, Vemula (M), YSR District, Andhra Pradesh – 516 349

Annexure-1

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Public Tender No. : **TMPL/PUR/315/225**

Item: Annual rate contract for supply of mechanical seals of different pumps

	<u>METSO Pumps</u>		
58	Tag No: 13P-15/ 13P- 11 Pump Model: MM 300 Pump Make: METSO Pump Liquid Handled: Sodium sulphate salts Specific Gravity: 1.20 , PH:(Slightly Alkaline) 10 , % Solids: 30 , Temp: 80°C , Viscosity: 10 Cp	Type: <i>Double Mechanical Seal, Catridge type</i> Service: Crystallisation Re-Circulation pump	1
	<u>Florolined Pumps</u>		
59	Tag No: NILL Pump Model: PVDF 70CT(SIZE : 80*50*265) Pump Make: FLUROLIN ED Liquid Handled: HCL Specific Gravity: 1.05 , PH:(Alkaline) 11 , % Solids: 05 , Temp: 25°C , Viscosity: 05 Cp	Type: <i>Single Mechanical Seal, Catridge type</i> Service: HCL transfer pumps	1
