



Badrakh Energy LLC
Zuuvch-Ovoo Uranium Project
H376512

Data Sheet
Mechanical
PM009 - Vacuum Belt Filter

Data Sheet

for

PM009 - Vacuum Belt Filter

H376512-PM009-240-206-0001

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2025-11-14	C	Approved For Bid	Y. Gupta	M. Nigam	L. Gresse	D. Voronkov
DATE	REV.	STATUS	PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY
HATCH						Client



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PM009 - Vacuum Belt Filter

Revision History

Date	Rev.	Description	Revised By
2025-11-14	C	Approved For Bid	Y. Gupta
2025-10-29	B	Client Review	Y. Gupta
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Badrakh Energy LLC			H376512		H376512-PM009-240-206-0001, Rev. C		
Zuuvch-Ovoo Uranium Project			DATASHEET				
			Vacuum Belt Filter				
Item	Rev	Title	Notes	UOM	Project Design Data	Supplier Data	Operation Data
SECTION A - IDENTIFICATION							
A1	A	Equipment Type		text	Horizontal Vacuum Belt Filter		
A2	A	Equipment Name		text	Yellowcake Belt Filter		
A3	A	Equipment Number		text	0460-FIL-1000		
A4	A	Quantity		#	1		
A5	A	Country of Manufacture		text	VTS		
A6	A	Make/Manufacturer		text	VTS		
SECTION B - REFERENCE DOCUMENTS							
B1	A	PFD		text	H376512-0460-210-282-0001-0001		
B2	A	P&ID		text	H376512-0460-250-276-0001-0001		
B3	A	Specification		text	H376512-PM009-240-242-0001		
B9	A	Painting and Protective Coating Specification		text	H376512-8000-240-242-0002		
B10	A	Site Climatic Conditions		text	H376512-8000-200-242-0001		
SECTION C - PROCESS/DESIGN DATA							
C1	A	Configuration		text	Belt Filter receives feed from the Fluidised-Bed Precipitator. The filter cake is discharged to a downstream screw conveyor while filtrate and washing effluent are collected in respective storage tanks		
C2	A	Location		text	Indoors		
C3	A	Indoor Ambient Temperature		°C	15 to 24 for winter and 17 to 29 for summer		
C4	A	Operating frequency		h/day	12		
C5	A	Design life		years	25		
C6	C	Hazardous Area Classification (IEC 60079)		text	Unclassified Zone		
C7	A	Feed Details					
C8	A	PFD Stream No		text	418		
C9	A	Operating Parameters					
C10	A	Total Mass Flow		t/h	1.92		
C11	A	Total Volume Flow		m³/h	1.24		
C12	A	Solids Mass Flow		t/h	0.8		
C13	A	Liquids Mass Flow		t/h	1.12		
C14	A	Slurry Feed Pressure		kPa(g)	VTS		
C15	A	Design Parameters					
C16	A	Design Factor		-	1.1		
C17	A	Total Mass Flow		t/h	2.12		
C18	A	Total Volume Flow		m³/h	1.36		
C19	A	Solids Mass Flow		t/h	0.89		
C20	A	Temperature		°C	63		
C21	A	Phase Properties					
C22	A	Total Density		kg/m³	1553		
C23	A	Solid Density		kg/m³	4100		
C24	A	Aqueous Density		kg/m³	1073		
C25	A	Solid Content (Operating)		wt%	41.9		
C26	A	Solid Content (Design)		wt%	41.9		
C27	A	Particle Size (d50) (Operating)		microns	33		
C28	A	Particle Size (d50) (Design)		microns	10		
C29	A	Solid Composition					
C30	A	Fe(OH)3		PPM	99		
C31	A	(NH4)2U2O7		wt%	99.99		
C32	A	Aqueous Composition					
C33	A	pH		pH	7-7.5		
C34	A	H2O		g/L	915.56		
C35	B	UO2SO4		mg/L	79.96		
C36	B	NaCl		mg/L	1.6		
C37	A	(NH4)2SO4		g/L	137.03		
C38	A	NH4Cl		g/L	1.56		
C39	A	NH4NO3		g/L	19.11		
C40	B	Na2SO4		mg/L	1.1		
C41	B	PFD Stream No		text	424		
C42	B	Operating Parameters					
C43	B	Total Mass Flow	3	t/h	6.6/VTC		
C44	B	Total Volume Flow	3	m³/h	6.61/VTC		
C45	B	Design Parameters	3				
C46	B	Total Mass Flow	3	t/h	7.26/VTC		
C47	B	Total Volume Flow	3	m³/h	7.27/VTC		
C48	B	PFD Stream No	3	text	423		
C49	B	Operating Parameters	3				
C50	B	Total Mass Flow	3	t/h	2.07/VTC		
C51	B	Total Volume Flow	3	m³/h	2.08/VTC		
C52	B	Temperature	3	°C	13		
C53	B	Design Parameters	3				
C54	B	Total Mass Flow	3	t/h	2.28/VTC		
C55	B	Total Volume Flow	3	m³/h	2.28/VTC		
C56	B	Temperature	3	°C	27/VTC		
C57	A	Output - Filtrate					
C58	A	PFD Stream No		text	430		
C59	A	Operating Parameters					
C60	A	Total Mass Flow	3	t/h	9.3/VTC		
C61	A	Total Volume Flow	3	m³/h	9.2/VTC		
C62	A	Design Parameters					
C63	A	Total Mass Flow	3	t/h	10.23/VTC		
C64	B	Total Volume Flow	3	m³/h	10.12/VTC		
C65	A	Temperature		°C	17-31		
C66	B	Total Density		kg/m³	1011		
C67	A	Solid Density		kg/m³	4100		
C68	A	Aqueous Density		kg/m³	1009		
C69	A	Solids Concentration	3	wt%	0.3/VTC		
C70	A	Output : Filter Cake - Steady-State Mass Balance					
C71	A	PFD Stream No		text	422		
C72	A	Operating Parameters					
C73	A	Total Mass Flow		t/h	0.89		
C74	A	Total Volume Flow		m³/h	0.3		
C75	A	Design Parameters					
C76	A	Total Mass Flow		t/h	0.97		
C77	A	Total Volume Flow		m³/h	0.33		

Badrakh Energy LLC			H376512			H376512-PM009-240-206-0001, Rev. C	
Zuuvch-Ovoo Uranium Project			DATASHEET			HATCH	
							
			Vacuum Belt Filter				
Item	Rev	Title	Notes	UOM	Project Design Data	Supplier Data	Operation Data
C78	A	Temperature		°C	14-28		
C79	A	Total Density		kg/m³	2973		
C80	A	Bulk Density		kg/m³	2500		
C81	A	Solid Density		kg/m³	4100		
C82	A	Aqueous Density		kg/m³	1000		
C83	A	Discharge Method		text	VTs		
C84	A	Cake thickness	3	mm	5 to 20, VTC		
C85	A	Cake formation time	3	min	VTs		
C86	A	Cake moisture, Operating	3	% w/w	12%, VTC		
C87	A	Cake moisture, Maximum	3	% w/w	20%, VTC		
C88	B	PFD Stream No		text	433		
C89	B	Operating Parameters					
C90	B	Total Mass Flow	2	t/h	VTs		
C91	B	Total Volume Flow	2	Nm³/h	VTs		
C92	B	Temperature	2	°C	VTs		
C93	B	Design Parameters	2				
C94	B	Total Mass Flow	2	t/h	VTs		
C95	B	Total Volume Flow	2	Nm³/h	VTs		
C96	B	Temperature	2	°C	VTs		
C97	A	Filter - Sizing	2				
C98	A	Method		text	Counter Current Water Wash		
C99	A	Cloth Wash Pressure	2	kPa(g)	VTs		
C100	A	Cloth Wash Flow Rate	2	m³/h	VTs		
C101	A	Belt Wash Pressure	2	kPa(g)	VTs		
C102	A	Belt Wash Flow Rate	2	m³/h	VTs		
C103	B	Cake Wash Flow Rate (Washing Effluent)	2	m³/h	VTs		
C104	B	Cake Wash Flow Rate (Deminerlized Water)	2	m³/h	VTs		
C105	A	Specific Solids Throughput for Filter Sizing	2	dry t/m²/h	VTs		
C106	A	Formation Pressure (max)	2	kPa(g)	VTs		
C107	A	Wash Ratio (dry solids in cake)	2	m³ wash water/t filter cake	VTs		
C108	A	Wash Efficiency (Overall g/L Cl removal)	2	%	VTs		
SECTION D - MECHANICAL							
D1	A	Performance Data - Dewatering Belt Filter					
D2	A	Tag No.			0460-FIL-1000		
D3	A	Filter Area	2	m²	VTs		
D4	A	Average Differential Pressure dP	2	kPa(g)	VTs		
D5	A	Overall Filtration Rate	2	kg/h/m²	VTs		
D6	A	Belt Length	2	m	VTs		
D7	A	Belt Width	2	mm	VTs		
D8	A	Belt Speed	2	m/min	VTs		
D9	A	Filter cloth type	2	text	VTs		
D10	A	Filter cloth - Air permeability	2	(litres/m²/s @ Pa)	VTs		
D11	A	Filter Cloth Thickness		mm	VTs		
D12	A	Filter Cloth Tensile Strength		text	VTs		
D13	A	Washing stages	2	Text	VTs		
D14	A	First Filtrate Pump	2				
D15	A	Tag No.		text	0460-PMP-1610A/B		
D16	A	Design Pressure	2	kPa (g)	VTs		
D17	A	Design Temperature	2	°C	VTs		
D18	A	Design Static Head	2	m	VTs		
D19	A	Design Flow Rate	2	m³/h	VTs		
D20	A	Make/Model	2	text	VTs		
D21	A	No of Dewatering Filtrate Pumps	2	No.	VTs		
D22	A	Washing Effluent Pump(s)	2				
D23	A	Tag No.	2	text	0460-PMP-1510A/B		
D24	A	Design Pressure	2	kPa (g)	VTs		
D25	A	Design Temperature	2	°C	VTs		
D26	A	Design Static Head	2	m	VTs		
D27	A	Design Flow Rate	2	m³/h	VTs		
D28	A	Make/Model	2	text	VTs		
D29	A	No of Wash Filtrate Pumps	2	No.	VTs		
D30	A	Vacuum Pump(s)	2				
D31	A	Tag No.		text	0460-PMP-1100A/B		
D32	A	Design Pressure	2	kPa (a)	VTs		
D33	A	Design Temperature	2	°C	VTs		
D34	A	Design Static Head	2	m	VTs		
D35	A	Design Flow Rate	2	m³/h	VTs		
D36	A	Make/Model	2	text	VTs		
D37	A	No of Vacuum Pumps	2	No.	VTs		
D38	A	Fume Hood	2				
D39	A	Tag No.		text	0460-HOD-1000		
D40	A	Type	2	text	VTs		
D41	A	Air Pressure	2	kPa	VTs		
D42	A	Flange connection size	2	mm	VTs		
D43	A	No of inlets	2	text	VTs		
D44	A	Filtrate Receiver/Separator					
D45	A	Tag No.		text	0460-SEP-1300/0460-SEP-1400		
D46	A	Maximum allowable working pressure (hot condition)	2	kPa (g)	VTs		
D47	A	Maximum allowable working pressure (cold condition)	2	kPa (g)	VTs		
D48	A	Hydrostatic Pressure	2	kPa (g)	VTs		
D49	C	Design Pressure of separator	2	kPa (g)	VTs		
D50	A	Flange planks, gaskets, bolts and nuts are included?	2	Yes/No	VTs		
D51	A	Internal components are included?	2	Yes/No	VTs		
D52	A	Supports for ladders/platforms/piping are included?	2	Yes/No	VTs		
D53	A	Spare gaskets are included?	2	Yes/No	VTs		
D54	A	Size of first filtrate separator	2	m (height*dia.)	VTs		
D55	A	Size of washing effluent separator	2	m (height*dia.)	VTs		
D56	B	First Filtrate Cyclone					
D57	B	Tag No.		text	0460-CYH-1200		
D58	A	Maximum allowable working pressure (hot condition)	2	kPa (g)	VTs		
D59	A	Maximum allowable working pressure (cold condition)	2	kPa (g)	VTs		
D60	A	Hydrostatic Pressure	2	kPa (g)	VTs		
D61	C	Design Pressure of cyclone	2	kPa (g)	VTs		
D62	A	Flange planks, gaskets, bolts and nuts are included?	2	Yes/No	VTs		
D63	A	Internal components are included?	2	Yes/No	VTs		

Badrakh Energy LLC			H376512			H376512-PM009-240-206-0001, Rev. C		
Zuuvch-Ovoo Uranium Project			DATASHEET			HATCH		
			Vacuum Belt Filter					
Item	Rev	Title	Notes	UOM	Project Design Data	Supplier Data	Operation Data	
D64	A	Supports for ladders/platforms/piping are included?	2	Yes/No	VTs			
D65	A	Spare gaskets are included?	2	Yes/No	VTs			
D66	A	Size of cyclone (cylinder portion)	2	m (height*dia.)	VTs			
D67	A	Size of cyclone (cone portion)	2	m (height)	VTs			
D68	A	First Filtrate Tank						
D69	A	Tag No.		text	0460-TNK-1600			
D70	C	Filtrate Tank Operating Capacity	2	m³	VTs			
D71	A	Size (Diameter*height)	2		VTs			
D72	C	Design Pressure		text	Atmospheric			
D73	A	Washing Effluent Tank						
D74	A	Tag No.		text	0460-TNK-1500			
D75	C	Tank Operating Capacity	2	m³	VTs			
D76	A	Size (Diameter*height)	2	m	VTs			
D77	C	Design Pressure		text	Atmospheric			
D78	A	Screw Conveyor						
D79	A	Tag No.		text	0460-SCV-1700			
D80	A	Manufacturer	2	text	VTs			
D81	A	Length	2	m	VTs			
D82	A	height	2	m	VTs			
D83	A	Screw Diameter	2	m	VTs			
D84	A	Trough Loading (%)	2	%	VTs			
D85	A	First Filtrate Tank Agitator						
D86	A	Tag No.		text	0460-AGI-1601			
D87	A	Make/Model	2	text	VTs			
D88	A	Shaft speed	2	rpm	VTs			
D89	A	Washing Effluent Tank Agitator						
D90	B	Is required?	3	Yes/No	VTC			
D91	A	Tag No.		text	0460-AGI-1501			
D92	A	Make/Model	2	text	VTs			
D93	A	Shaft speed	2	rpm	VTs			
SECTION E - ELECTRICAL								
E1	A	Voltage/Phase/Frequency		V/Ph/Hz	400/3/50			
E2	A	Total Operating Power	2	kW	VTs			
E3	A	Total Installed Power	2	kW	VTs			
E4	C	Motor Efficiency Class		text	IE3 Minimum			
E5	A	Motor terminal box		text	Right hand side looking from NDE			
E6	A	Belt Filter Motor	2					
E7	A	Power (operating/installed)	2	kW	VTs			
E8	A	Motor model	2	text	VTs			
E9	A	Drive (DOL/VSD)	3	text	VTC			
E10	A	Motor power terminal size and qty	2	Metric dia.	VTs			
E11	A	Anti-Condensation Heaters	2	text	VTs			
E12	A	Motor Speed	2	rpm	VTs			
E13	A	Ingress Protection	2	text	VTs			
E14		Motor cable entry gland size (Metric)		text	VTs			
E15	A	First Filtrate Pump Motor	2					
E16	A	Power (operating/installed)	2	kW	VTs			
E17	A	Motor model	2	text	VTs			
E18	A	Drive (DOL/VSD)	4	text	VSD			
E19	A	Motor power terminal size and qty	2	Metric dia.	VTs			
E20	A	Anti-Condensation Heaters	2	text	VTs			
E21	A	Motor Speed	2	rpm	VTs			
E22	A	Ingress Protection	2	text	VTs			
E23	B	Motor cable entry gland size (Metric)		text	VTs			
E24	A	Washing Effluent Pump(s) Motor	2					
E25	A	Power (operating/installed)	2	kW	VTs			
E26	A	Motor model	2	text	VTs			
E27	A	Drive (DOL/VSD)	3	text	VSD			
E28	A	Motor power terminal size and qty		Metric dia.	VTs			
E29	A	Anti-Condensation Heaters	2	text	VTs			
E30	A	Motor Speed	2	rpm	VTs			
E31	A	Ingress Protection	2	text	VTs			
E32	B	Motor cable entry gland size (Metric)	2	text	VTs			
E33	A	Vacuum Pump(s) Motor						
E34	A	Power (operating/installed)	2	kW	VTs			
E35	A	Motor model	2	text	VTs			
E36	A	Drive (DOL/VSD)	3	text	VTC			
E37	A	Motor power terminal size and qty	2	Metric dia.	VTs			
E38	A	Anti-Condensation Heaters	2	text	VTs			
E39	A	Motor Speed	2	rpm	VTs			
E40	A	Ingress Protection	2	text	VTs			
E41		Motor cable entry gland size (Metric)	2	text	VTs			
E42	A	Screw Conveyor Motor	2					
E43	A	Power (operating/installed)	2	kW	VTs			
E44	A	Motor model	2	text	VTs			
E45	A	Drive (DOL/VSD)	3	text	VTC			
E46	A	Motor power terminal size and qty	2	Metric dia.	VTs			
E47	A	Anti-Condensation Heaters	2	text	VTs			
E48	A	Motor Speed	2	rpm	VTs			
E49	A	Ingress Protection	2	text	VTs			
E50	B	Motor cable entry gland size (Metric)	2	text	VTs			
E51	A	First Filtrate Tank Agitator Motor	2					
E52	A	Power (operating/installed)	2	kW	VTs			
E53	A	Motor model	2	text	VTs			
E54	A	Drive (DOL/VSD)	3	text	VTC			
E55	A	Motor power terminal size and qty	2	Metric dia.	VTs			
E56	A	Anti-Condensation Heaters	2	text	VTs			
E57	A	Motor Speed	2	rpm	VTs			
E58	A	Ingress Protection	2	text	VTs			
E59	B	Motor cable entry gland size (Metric)		text	VTs			
E60	A	Washing Effluent Tank Agitator Motor	2					
E61	A	Power (operating/installed)	2	kW	VTs			
E62	A	Motor model	2	text	VTs			
E63	A	Drive (DOL/VSD)	3	text	VTC			
E64	A	Motor power terminal size and qty	2	Metric dia.	VTs			
E65	A	Anti-Condensation Heaters	2	text	VTs			
E66	A	Motor Speed	2	rpm	VTs			
E67	A	Ingress Protection	2	text	VTs			
E68	B	Motor cable entry gland size (Metric)	2	text	VTs			

Badrakh Energy LLC			H376512		H376512-PM009-240-206-0001, Rev. C		
Zuuvch-Ovoo Uranium Project							
			DATASHEET				
			Vacuum Belt Filter				
Item	Rev	Title	Notes	UOM	Project Design Data	Supplier Data	Operation Data
SECTION F - INSTRUMENTATION/CONTROL							
F1	A	Belt Filter Level Transmitter	3	Yes/No	Yes		
F2	A	Belt Cloth Position	3	Yes/No	Yes		
F3	A	Belt Position	3	Yes/No	Yes		
F4	A	Wash Water Flow Switch(s)	3	Yes/No	Yes		
F5	A	Filtrate Flow Switch(s)	3	Yes/No	Yes		
F6	A	Filtrate Receiver Level Transmitter(s)	3	Yes/No	Yes		
F7	A	Filtrate Receiver Level High Limit Switch(s)	3	Yes/No	Yes		
F8	A	Filtrate Receiver Level Low Limit Switch(s)	3	Yes/No	Yes		
F9	A	Vacuum Pump Cooling Water Flow Switch(s)	3	Yes/No	Yes		
F10	A	Control Voltage	3	text	24 V DC		
F11	C	Vacuum Pressure Transmitter	3	text	Yes		
F12	C	Cake thickness Measurement	2	text	VTs		
F13	A	Other instrumentation	2	text	VTs		
SECTION G - SERVICE REQUIREMENTS							
G1	A	PLANT AND INSTRUMENT AIR					
G2	A	Air Supply Pressure available		kPa(g)	700		
G3	A	Air Supply Pressure required	2	kPa(g)	VTs		
G4	B	Quantity of Screw Conveyor Seal Air	2	Nm³/h	VTs		
G5	A	Quantity of Total Air required	2	Nm³/h	VTs		
G6	C	Compressed air piping class at battery limit		text	ISA S7.0.01		
G7	C	Compressed air piping pressure rating		kPa(g)	VTs		
G8	A	FILTER SEAL WATER					
G9	A	Quality		text	Demineralised		
G10	A	Temperature		°C	13-27		
G11	A	Quantity of seal water required	2	m³/hr	VTs		
G12	A	Expected return Temperature spent cooling water	2	°C	VTs		
G13	C	Pipeline pressure rating	2	kPa(g)	VTs		
G14	A	VACUUM PUMP SEAL WATER					
G15	A	Quality		text	Demineralised		
G16	A	Temperature		°C	13-23		
G17	A	Quantity of seal water required	2	m³/hr	VTs		
G18	A	Expected return Temperature spent cooling water	2	°C	VTs		
G19	C	Pipeline pressure rating	2	kPa(g)	VTs		
G20	A	PROCESS WATER (Washing Duty, etc)					
G21	A	Quality		text	Demineralised		
G22	A	Temperature		°C	13-27		
G23	A	Chloride concentration		mg/L	0		
G24	A	Quantity required (filter cloth wash, belt wash etc)	2	m³/h	VTs		
G25	C	Quantity of total fresh water requirement	2	m³/h	VTs		
G26	C	Pipeline pressure rating	2	kPa(g)	VTs		
SECTION H - CONSTRUCTION							
H1	A	Geometry					
H2	A	General Arrangement Drawing(s)	2	text	VTs		
H3	A	Overall package dimensions (width/length/height)	2	m x m x m	VTs		
SECTION I - MATERIALS OF CONSTRUCTION							
I1	A	Distributor	2	Thk/Matl	VTs		
I2	A	Moisture trap	2	Thk/Matl	VTs		
I3	A	Cake Discharge Chute	2	Thk/Matl	VTs		
I4	A	Filter Framework	2	Thk/Matl	VTs		
I5	A	Belt Support rollers	2	Material	VTs		
I6	A	Rubber belt	2	Thk/Matl	VTs		
I7	A	Cloth	2	Thk/Matl	VTs		
I8	A	First Filtrate Pump	2	Material	VTs		
I9	A	Washing effluent/filtrate Pump(s)	2	Material	VTs		
I10	A	First Filtrate Separator	2	Thk/Matl	VTs		
I11	A	First Filtrate Cyclone	2	Thk/Matl	VTs		
I12	A	Washing Effluent Separator	2	Thk/Matl	VTs		
I13	A	Vacuum Pump	2	Material	VTs		
I14	A	Vacuum box	2	Material	VTs		
I15	A	Wash Water spray bar	2	Material	VTs		
I16	A	Feeder	2	Material	VTs		
I17	A	Drip trays	2	Material	VTs		
I18	A	Interconnecting pipe between skids	2	Material	VTs		
I19	A	Structural Steelwork and Platforms	2	Material	VTs		
I20	A	Slurry Pipework	2	Material	VTs		
I21	A	Water Pipework	2	Material	VTs		
I22	A	Fume hood	2	Material	VTs		
I23	A	Yellowcake screw conveyor	2	Material	VTs		
I24	A	First Filtrate Tank	2	Thk/Matl	VTs		
I25	A	Washing Effluent Tank	2	Thk/Matl	VTs		
I26	A	Filter Hood	2	Thk/Matl	VTs		
SECTION J - SURFACE PREPARATION AND PAINTING							
J1	A	Surface Preparation	2	text	VTs		
J2	A	Primer	2	text	VTs		
J3	A	Finish Coat	2	text	VTs		
J4	A	Coating System	2	text	VTs		
J5	A	Total Dry Film Thickness	2	text	VTs		
J6	A	High Temperature Coating System Recommended (>400C)	2	text	VTs		
J7	A	Colour Code	2	text	VTs		
SECTION K - WEIGHTS AND LOADS							
K1	A	Total Shipping Weight	2	tonnes	VTs		
K2	A	Maximum Single Lift for Installation	2	tonnes	VTs		
K3	A	Maximum Single Lift for Maintenance	2	tonnes	VTs		
K4	A	Operating Loads	2	tonnes	VTs		
K5	A	Flooded Loads	2	tonnes	VTs		
SECTION L - TESTING AND ACCEPTANCE							
L1	B	Quality Assurance		Text	ISO 9001		
L2	A	Inspection Test Plan		Text	Vendor to submit procedure for approval		
L3	A	Inspection Test Checklist		Text	Vendor to submit procedure for approval		
L4	B	Inspection		Text	Third Party		
L5	B	Non Destructive Evaluation (NDE)	2	Text	VTs		
L6	B	Factory Acceptance Test (FAT)		Text	Vendor to Submit procedure for approval		
L7	B	Mechanical Test Run		Text	Yes		

Badrakh Energy LLC			H376512			H376512-PM009-240-206-0001, Rev. C	
Zuuvch-Ovoo Uranium Project							
			DATASHEET				
			Vacuum Belt Filter				
Item	Rev	Title	Notes	UOM	Project Design Data	Supplier Data	Operation Data
L8	B	Full Load/Speed/Pressure Test		Text	Yes - on commissioning		
L9	B	Natural Frequency Test	2	Text	VTS		
L10	B	Stress Relieving	2	Yes/No	VTS		
NOTES							
1		All equipment sizes and motor sizes are indicative only. Vendor to confirm.					
2		VTS - Vendor to Specify.					
3		VTC - Vendor to Confirm.					
4		VSD- Variable Speed Drive.					