

Project		TARAZ BITUMEN PLANT PROJECT  GREEN CUBE IDEA ENGINEERING & MINING CO.	
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DATA SHEET FOR CIRCULATION
PUMPS
P-202 A/B

01	10.Jun.2026	Issued for Procurement	A.Joorabloo	H.Abhaji	A.Mobaraki
00	19.Apr.2026	Issued for Procurement	A.Joorabloo	H.Abhaji	A.Mobaraki
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

Project										 GREEN CUBE IDEA ENGINEERING & MINING CO.			
TARAZ BITUMEN PLANT PROJECT													
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DATA SHEET FOR CIRCULATION PUMPS P-202 A/B					TRZ-PR-DS-008-01					2 of 3			
1	GENERAL DATA												
2	ITEM	P202 A/B	TYPE	SCREW Pump			No. OF PUMPS	2					
3	SERVICE	Vacuum Bottom/Bitumen Pumps			INSTALLATION:				Outdoor				
4	OPERATION: (continuous-discontinuous-other)			continuous		(parallel-single-other)		parallel					
5	TYPE OF DRIVER		Electrical motor		FOR UNITS		DATA SHEET No.						
6	TYPE OF DRIVER				FOR UNITS		DATA SHEET No.						
7	ELECTRICAL SUPPLY:		AC	VOLTAGE	V	400	FREQUENCY	Hz	50	PHASES No.	3		
8	CHARACTERISTICS OF HANDLED LIQUID												
9	TYPE OF HANDLED LIQUID						Vacuum Bottom -Bitumen						
10	PUMPING TEMPERATURE:			MIN / NORM / MAX		°C	80	/	140	/	250		
11	DENSITY AT TEMPERATURE			MIN / NORM / MAX		kg/m³	1010	/	950	/	890		
12	VISCOSITY AT TEMPERATURE			MIN / NORM / MAX		cP	3000~5000	/	250~850	/	40~80		
13	VAPOUR PRESSURE AT MAX PUMPING TEMPERATURE					bara	0						
14	FREEZING POINT / POUR POINT					°C	-		/	-			
15	DISSOLVED GAS					(yes-no)	No						
16	CORROSIVE / EROSION / HAZARDOUS AGENTS					(yes-no)	No	/	No	/	No		
17	SUSPENDED SOLIDS:			TYPE / DIMENSIONS / VOLUME %		mm	-	/	-	/			
18	OPERATING CONDITIONS												
19	SUCTION PRESSURE:			MIN / NORM / MAX		bar(g)	0	/	0.5	/	1		
20	DISCHARGE PRESSURE AT RATED CAPACITY					bar(g)	8						
21	DIFFERENTIAL PRESSURE AT RATED CAPACITY					bar(g)	7.5						
22	CAPACITY:			MIN / NORM / RATED		m³/h	45	/	90	/	110		
23	HEAD AT RATED CAPACITY (Normal Temperature of Pumping Fluid)					m	80						
24	NPSH AVAILABLE					m	5.5						
25	DESIGN PRESSURE PRESSURE AT SHUT-OFF					bar(g)	9.4						
26	BREAK HORSE POWER.					kW	35.3						
27	FLOW CONTROLLED BY (pressure controller-level controller-flow controller-other)					PRESSURE RELIF VALVE							
28	REACCELERATION / AUTOMATIC START-UP					(yes-no)	No			No			
29	START-UP WITH DELIVERY VALVE					(open - closed)	open						
30													
31													
32													
33	PACKINGS												
34	SEAL TYPE												
35	CONTAMINATION OF LIQUID HANDLED ALLOWED					(yes-no)	No						
36	AIR ENTRAINMENT ALLOWED					(yes-no)	No						
37	LEAKS ALLOWED					(yes-no)	No						
38	ANTIFREEZING PROTECTION					(yes-no)	Yes						

