

Project		 GREEN CUBE IDEA ENGINEERING & MINING CO.
TARAZ BITUMEN PLANT PROJECT		
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DATA SHEET FOR REACTOR LOADING

PUMPS

P-203 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

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1	GENERAL DATA											
2	ITEM	P203 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 / EROSIVE / 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)	8.5				
21	DIFFERENTIAL PRESSURE AT RATED CAPACITY						bar(g)	8				
22	CAPACITY:			MIN / NORM / RATED			m³/h	20	/	40	/	50
23	HEAD AT RATED CAPACITY (Normal Temperature of Pumping Fluid)						m	85				
24	NPSH AVAILABLE						m	6.5				
25	DESIGN PRESSURE PRESSURE AT SHUT-OFF						bar(g)	10				
26	BREAK HORSE POWER.						kW	17.1				
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				

