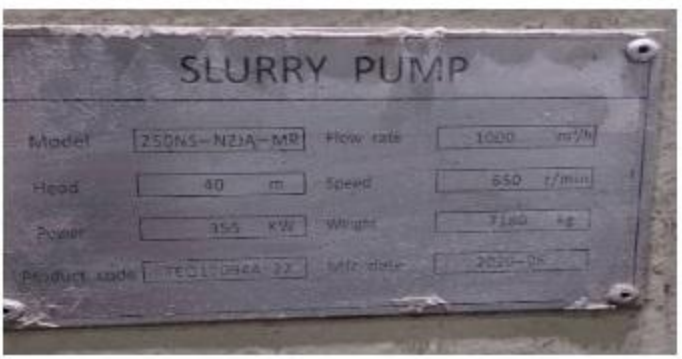

SLURRY PUMP
Model
250NS-NZJA-MR
Flow rate
1000
m³/h
Head
40
m
Speed
650
r/min
Power
355
KW
Weight
7180
kg
Product code
TEC1.0H4A.22
Mfr. date
2020-05

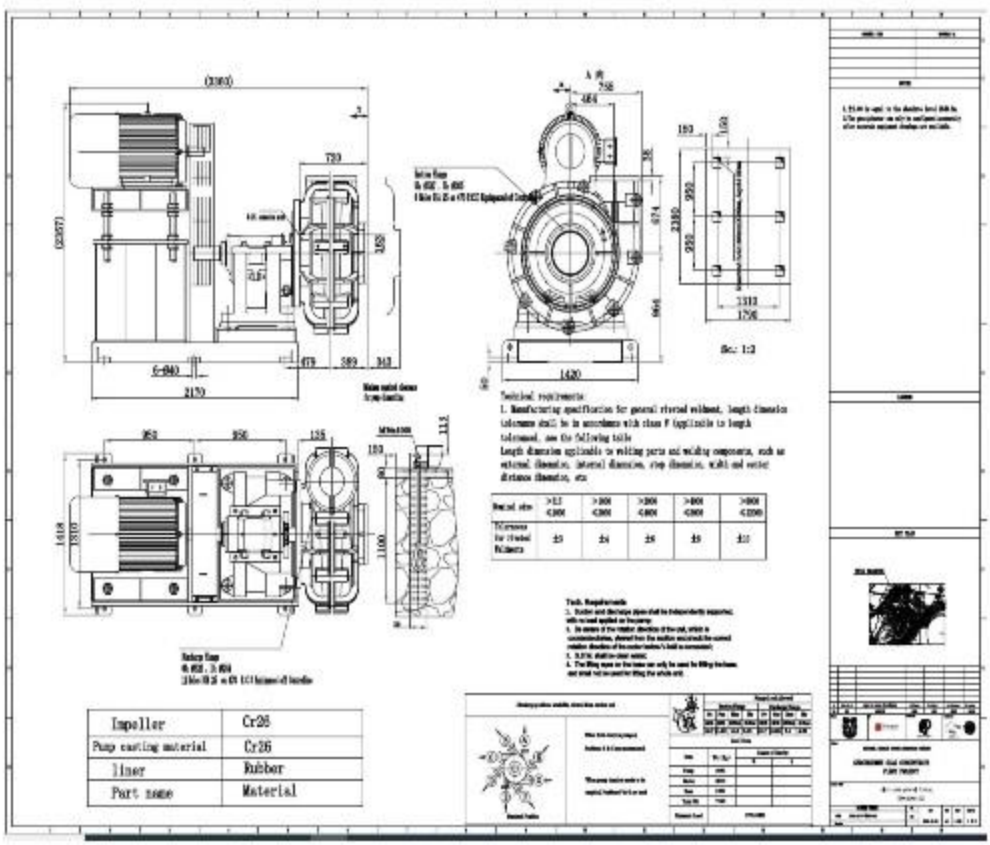
	1.	**GENERAL**

	2.	**Equipment Name:**	SLURRY PUMP		
	3.	**Tag Number:**	37-1504-01/02	QTY Required:	1+1
	4.	**Applicable to:**	☒ PROPOSAL ☐ PURCHASE ☐ AS PURCHASED		
	5.	**Client:**	National Iranian Copper Industries Company (NICICO)		
	6.	**Manufacturer ***	-----		
	7.	**P.O. No.: ***	-----		
	8.	**Inspection:**	Supervisory Authority		
	9.	**Regulations:**	API 610 or other applicable Standard		
	10.	**SITE CONDITION**			
	11.	**Site Location:**	SARCHESHMEH SLAG CONCENTRATE	**Installation:**	☒ Indoor ☐ Outdoor
	12.				
	13.	**Site Latitude:**	29°59' N	**Site Longitude:**	55°52' E
	14.	**Site Elevation:**	2540 (m.a.s.l.)	**Earthquake**	0.3 G
	15.	**Site Temperature:**	-20 °C ~ +40°C	**Ave. Site Humidity:**	70 %
	16.	**Wind speed (km/h)**	130		
	17.	**Hazardous Area**	☐ Yes ☒ No		
	18.	**Environment:**	☒ Relatively Clean ☐ Dusty ☐ Corrosive		
	19.	**NOTE:**			
	20.	I. All components' vendor should be introduced by manufacturer for Client Approval.			
	21.				
	22.				
	23.				
	24.				
	25.				
	26.				
	27.				

	28.					
	29.					
	30.					
	31.					
	32.					
	33.					
	34.	**GENERAL DATA**				
	35.	Manufacturer:	NAIPU Co.			
	36.	Pump model	250NS-NZJA-R			
	37.	Type	☒ Horizontal	☐ Inline	☐ Vertical	
	38.	Duty	☒ Continuous	☐ Intermittent	☐ Single	☐ Parallel
	39.	**PROCESS & PERFORMANCE DATA**				
	40.	Flow(m^3/h)Max	1000	Density (kg/m^3):	1.72	
	41.	Suction Pressure (m):	0	Fluid / Service:	Slurry	
	42.	Discharge Pressure (m):	30.50	NPSH Available (m):	4.6	
	43.	Differential Pressure (m):	30.50	Hydraulic power:(Kw)	235.27	
	44.	Total dynamic Head (m): Max	36.26 (with water)	pH Value:	7	
	45.			Pumping temperature: °C	25	
	46.	Viscosity @ min./norm./max (cP)	N/A	Vapour pressure @ norm. Temp @20°C mb	N/A	
	47.					
	48.	**DRIVER TYPE**		Characteristics:	☐ Corrosive	☐ Toxic
	49.	☒ Induction Motor	☐ Steam Turbine		☐ Flammable	☒ Abrasive
	50.	☐ Gear	☐ Other		☒ Solids	☐ Other
	51.	**MOTOR MOUNTING**		**PERFORMANCE**		
	52.	☐ Direct Mounted	☐ Indirect Mounted	Rated Speed (RPM):	620	
	53.	**MOTOR DRIVER**		Impeller Diameter (mm):	613	

	54.	Manufacturer:		Siemens Co.		Impeller Type:		Closed
	55.	Type:		Electrical		NPSH Required (m):		2.92
	56.	Constant or Variable Speed:		VFD		Rated Power (kW):		260
	57.	Nominal Speed (RPM):		620		Efficiency (%):		77.64
	58.	Power (kW):		355		Type of shaft seal		GLAND SEAL
	59.	Voltage / Phase / Frequency:		380V±10%, 3Ph, 50Hz±5%		Flow rate of seal water (m^3/h):		5.76 (size :1")
	60.	Frame:		structural		Pressure of seal water (mH2o)		69.3
	61.	Enclosure:		N/A		Max Head @ Rated Impeller (m):		40
	62.	Insulation:		F		Max Power @ Rated Impeller (kW):		260
	63.	Temperature Rise:		B		Pump Sound Press. Level (dBA)		65
	64.	Projection:		IP55		Drive end bearing		NU2226EC
	65.	Locked Rotor Amps:		N/A		Wet end bearing		THM926749
	66.	Starting Method:		N/A		Shaft and dimension (mm)		120-260
	67.	**CONSTRUCTION**					**MATERIAL**	
	68.	Nozzles	Size	Rating	Facing	Position	Pump Casing:	Alloy with rubber
	69.	Suction (mm)	305	--	--	--	Impeller:	Alloy with rubber
	70.	Discharge (mm)	254	--	--	--	Diffuser:	Alloy with rubber
	71.	Balance Drum	N/A	--	--	--	Shaft:	Alloy with rubber
	72.	Casing Conn.	N/A	N/A	N/A		Type of Impeller :	A-G25005-M
	73.	Drain	N/A	N/A	N/A		Case Wear Rings:	N/A
	74.	**MECHANICAL SEAL**						
	75.	Type					Packing seal	
	76.	**WEIGHTS**						
	77.	Pump weight (Kg)					3630	
	78.	Motor weight (Kg)					2400	
	79.	Total weight (Kg)					6000	

	50.	**TEST & INSPECTION**			
	51.	☒ Hydrostatic ☐ Performance test	☐ Shop inspection ☐ Dismantle & inspection after test	☒ NPSH ☐ Sound level test	☐ Complete unit ☐ Sound level test
	52.				
	53.	**NOTES**			
	54.	Pump vendor to provide loading information to piping designer.			
	55.	**REMARKS**			
	56.	Accessories to Be Included in Supply:			
	57.	Set of Gaskets			
	58.	Set of Special Tools for Erection, Commissioning and Maintenance			
	59.	Set of Bearings			
	90.	Corrosion Resistance Name Plate			
	91.	Set of Documentation for Erection			



Impeller	Cr26
Pump casting material	Cr26
liner	Rubber
Part name	Material