Name 1	SIX–STAGE CENTRIFUGAL PUMP
Name 2	/
ID number	002.131.Idrija
Manager / Administrator	Idrija Municipal Museum, Prelovčeva 9, SI-5280 Idrija
Ownership	Public
Owner	Municipality of Idrija, Mestni trg 1, SI-5280 Idrija
Local / Original ID Number	510:IDR;RS-1
Type of Object	Mine

DESCRIPTION

Short description	The six–stage centrifugal pump has the following components: the housing with the suction and pressure nozzle, drive shaft with rotors and with shaft connection. On the inside of the housing the guide wheels are attached, which guide the liquid from one rotor – the runner – through the guide canals into the other runner. The drive shaft is attached with round bearings on both sides. The reel of the shaft connection with diameter of 250 mm and width of 65 mm is attached to one side, specifically to the end of the shaft with diameter of 40 mm. The total pump capacity during operation is 1200 l/min, its manometer height is 275 mm and its speed is 1440 RPM.

Measures	Length 142.5 cm, width 70.8 cm, height 91.5 cm.
Materials	Brass, steel, cast iron.
Dating	1922
Author / Producer	S. A. Ercole Marelli & Co. Milano.

Picture attachments

Original use	The pump was placed on the main excavation site on the XI level of the Joseph’s Shaft. Along with the other six–stage centrifugal pump (RS2), the pump served for pumping pit water to the surface. The connection pipe from the RS2 pump was screwed on the suction nozzle, furthermore the pressure nozzle was connected with the valves and the pipes, which were used for the pumped water to come to the surface and into the Idrijca River. The three-phase asynchronous electric motor (characteristics: power 93.2kW (125 HP), 2500 V, 50 Hz), was directly fused with the pumps. In the night on Saturday, 5 February 1944 to Sunday, 6 February 1944, the Partisans blew the pump up and then the Germans repaired it, so that the pump was functional again. All these adjustments, mainly on the welded parts, are still partially visible today.
Present use	The six–stage centrifugal pump is being preserved, secured and presented as an important monument of Idrija technical mining heritage with exceptional universal values. It is part of the Idrija Municipal Museum collection “Mining machines and devices”, which demonstrates the middle-European machine manufacturing at the end of the 19th and in the beginning of the 20th centuries. The collection displays restored mining machines and devices, tools and equipment, which were necessary for working in a pit or in outdoor plants. For this reason it represents technical heritage which greatly exceeds the Idrija Mercury Mine framework and is therefore of a larger, global importance.
Original location	Joseph's Shaft, level XI (altitude 65 m).
Present location	Francis’ Shaft building (showroom 1).

STATE OF CONSERVATION

History of conservation:	The pump was renovated between 1990 and 1992. It was completely disassembled, surfaces of individual parts were cleaned with a sandblasting process, reassembled and its foundations and top were painted. They made new covers for covering the suction and pressure nozzle and new M12 screw material for screwing the covers. The pipes and some parts of the armature are missing. Additional interventions are not necessary. Security of the premises is ensured.
Present state	good
Necessary activities:	Regular seasonal maintenance.

DOCUMENTATION

Addresses / collections / links etc. where further in-depth information is accessible:	- Inventory Book of the Idrija Municipal Museum; - Zelenc, Anton. In vendar se giblje: katalog rudniških strojev in naprav. Idrija, Municipal Museum Idrija, 2001; - Mohorič, Ivan. Rudnik živega srebra v Idriji. Idrija, Idrija Municipal Museum, 1960; - Beričič, Ivan. Razstrelitev črpalk v idrijskem rudniku, Idrijski razgledi 3/1958, p. 81–82; - Zelenc, Anton. Idrija Municipal Museum: restored mine machines and devices of the Idrija Mercury Mine. Patrimoine de l´industrie, 2004, p. 17–19.
Submitted	Mestni muzej Idrija
Submitted by	Miha Kosmač
Date Submitted	5. 3. 2018
Date Edited	Never