(1) **EU-Type Examination Certificate**

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 21 ATEX 0986X**

(4) Product: **11 / 11,1 / 14 / 18 / 22 / 28 / 45 Type Radial Fans**

(5) Firm Name: **SELNİKEL Enerji Isı Hava Tekniklèri A.Ş.**

(6) Firm Address: **ASO II. - III. Organize Sanayi Bölgesi Eskişehir Yolu 42. Km Alcı OSB Mah. 2013. Cadde No:14 Sincan ANKARA -TURKEY**

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr : IEP.Rp.Ex.10-1995 date 26.07.2021

(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN IEC 60079-0: 2018 , EN ISO 80079-36:2016 , EN ISO 80079-38:2016

(10) If the sign " X " is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following :

I M2 Ex db I Mb
I M2 Ex h I Mb

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

Date of issue :02.08.2021

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(13) Schedule

(14) Certificate Nr : **IEP 21 ATEX 0986X**

(15) Description of Equipment:

This equipment's are the electrical radial fan. Radial fans are designed to be used in underground mines as single and double suction. This equipment's are used for group I explosive atmospheres. The body and impeller are made of stainless steel. Mechanical and electrical parts list of fans is form 2.3 and date 07.06.2021.

Technical Parameters:

Product Type	**11**	**11,1**	**14**	**18**	**22**	**28**	**45**
Electrical data	. 400 V AC ~ 1100 V AC						
Suction diameter	112 mm ~ 2500 mm						
Speed	(1000,1500,3000)rev/min^{-1}						
IP xy Motor / Fan	IP 55 or IP 65 / IP 20						
Ambient temperature	Ta: -20 ^{0}C ~ + 40 ^{0}C						
Max air speed	40 m/sec						
Motor power (kW)	1,1 ~ 800	1,1 ~ 800	0,75 ~ 1050	1,1 ~ 1050	1,1 ~ 1050	0,75 ~ 710	1,1 ~ 355

(IEP 21 ATEX 0986X) X means: Installation should be done by authorized personnel according to the usage and maintenance manual. Thermal breakers should be used for the motor used in the system with powers higher than 4 kW. Bearing temperature sensor system, vibration tracking system etc. to be used in the system. Equipment must be compatible with the document protection type. Approval must be obtained as a result of the installation of such additional devices.

Product Coding System :

Ex - X - X - X -X

- Type of drive (M: Directly mounted, K: Coupling, R: Belt)
- Suction side connection (U: Direct connection to duct, E: with inlet nozzle, S: with suction boc.)
- Inlet type (R: Single inlet, Z: Double inlet)
- Series (11 / 11,1 / 14 / 18 / 22 / 28 / 45)

(16) Special Conditions for Safe Use:

16.1 Assembly and working of radial fan with other related equipment's must be adapted to national regulations.

16.2 For terms of installation, it must be ensured that the equipment grounding connection of all components is realized and will be maintained.

16.3 The equipment may only be opened in absence of an explosive atmosphere.

16.4 All additional safety instructions of the manufacturer must be met.

Responsible Person:

NurettinTerzioglu
Head of Certification Body

(17) Certificate Nr: **IEP 21 ATEX 0986X**

(18) Essential Health and Safety Requirements:

This certificate is in the contents of standards that mentioned in item (9) It has been accepted that radial fans are manufactured according to the producer instructions and the standards mentioned above.

(19) List of documentation:

- Radial fans user manual : 52 pages, dated 21.06.2021
- Component Lists : 07.06.2021
- Risk assessment report (EN 80079-36) : date 24.06.2021
- Risk assessment report (EN 12100-1) : date 17.05.2021

(20) Drawings:

Drawing Nr;	**Revision Nr;**	**Date;**
42000017000100	00	30/11/2020
42000027000100	00	30/11/2020
42000037000100	00	30/11/2020
42000047000100	00	30/11/2020
42000057000100	00	30/11/2020
42000067000100	00	30/11/2020

For the validity of analysis type certificate, the parts that are used in radial fans are determined in confirmed the list of equipment's parts 2.3 and date 07.06.2021.

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

ENERGY PETROLEUM INSTITUTE * IEP ATEX * NB 2284 * INSPECTION AND CERTIFICATION

Date of issue : 02.08.2021

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