



TEST REPORT

Order No.: 6393-2
 Date of Reception: 2023/5/23
 Date of Financial Approval: 2023/5/24
 Date of Test: 2023/6/13
 Date of Issue: 2023/6/14
 Revision No.: 0
 Page: 1 of 5

Client Name: TAAVONI SAFE MADAN
 Client Reference No.: 19119
 Address: SHAHID BEHESHTI -HEJRAT HIGHWAY-BASIJ-HIGH WAY-TEHRAN
 Sample Name: Blue colored salt

Lab. Environmental Conditions

- Temperature:
 - Humidity:

Chemical Analysis, XRF According to:

ASTM E 1621-21

Preparation of sample: No grinded ☐ grinded ☒

Result of XRF:

Element	Weight %	Element	Weight %	Element	Weight %
Na	30.4	Mg	0.04	K	11.88
Cl	57.66	Ca	0.02	-	-

Notes

- The analysis depends on sampling and uniformity of sample.
- The result is semi quantitative.

- Approved laboratory by INSO, MHME & ED
- Certified as research center by MIMT & MSRT
- Selected as premier research center by MIMT for 2015 to 2021
- Selected as premier laboratory by NTLN in 11 consecutive years
- Selected as premier laboratory by IHTLN in 6 consecutive years



Expert

S. Sahraee

Technical Manager

S. Sahraee

Laboratory Manager

M. Jafarian

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Page: 2 of 5

Client Name: TAAVONI SAFE MADAN
Client Reference No.: 19119
Address: SHAHID BEHESHTI - HEJRAT HIGHWAY-BASIJ-HIGH WAY-TEHRAN
Sample Name: Blue colored salt

Lab. Environmental Conditions
- Temperature:
- Humidity:

Analysis ICP-Mass

Result

Result of chemical analysis test:

Element	Concentration (ppm)	Element	Concentration (ppm)	Element	Concentration (ppm)	Element	Concentration (ppm)	Element	Weight %
Ag	<1	Fe	15	Ni	<1	Te	<1	Na	30.3
Al	4	Gd	<1	Nd	<1	Ti	2	K	11.7
As	<1	Ga	<1	Pt	<1	Ta	<1	-	-
Ba	<1	Ge	<1	Pd	<1	Tm	<1	-	-
Bi	<1	Hf	<1	Pb	7	Th	<1	-	-
Be	<1	Hg	<1	P	<1	Tb	<1	-	-
B	<1	Ho	<1	Re	<1	Tl	<1	-	-
Cd	<1	In	<1	Rh	<1	U	<1	-	-
Cr	<1	Lu	<1	Sn	234	V	<1	-	-
Ce	<1	Li	<1	Sr	5	W	<1	-	-
Ca	543	La	<1	Se	<1	Y	<1	-	-
Cu	<1	Mn	2	Sm	<1	Yb	<1	-	-
Co	<1	Mg	215	Sb	1	Zr	2	-	-
Dy	<1	Mo	<1	Sc	<1	Zn	<1	-	-
Eu	<1	Nb	<1	Er	<1	-	-	-	-

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[Signature]

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[Signature]

- The test of K element was done by Atomic Adsorption spectrophotometry.

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Client Name: TAAVONI SAFE MADAN
Client Reference No.: 19119
Address: SHAHID BEHESHTI - HEJRAT HIGHWAY-BASIJ-HIGH WAY-TEHRAN
Sample Name: Blue colored salt

Lab. Environmental Conditions

- Temperature:

- Humidity:

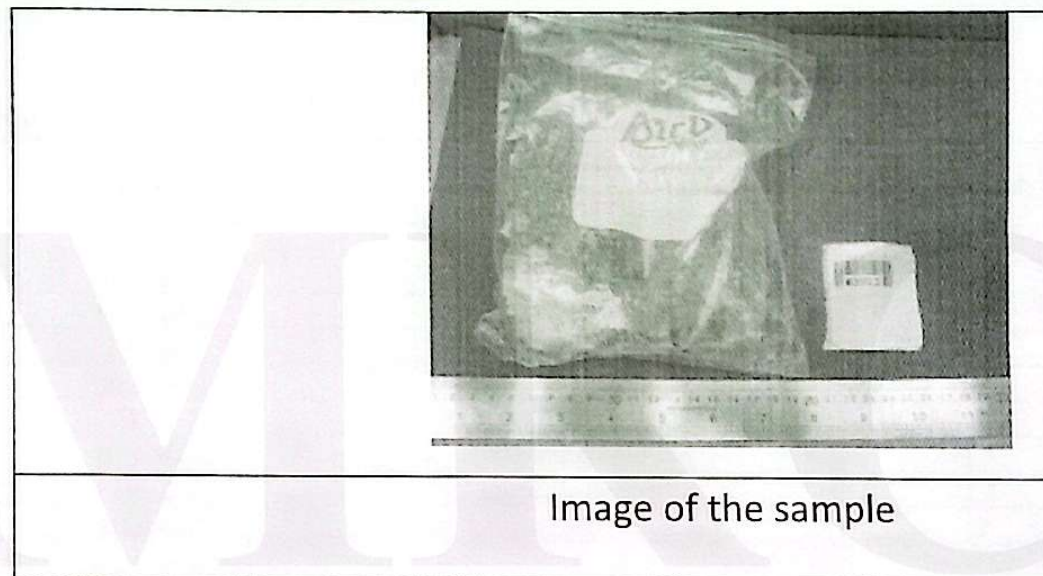


Image of the sample

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Client Name: TAAVONI SAFE MADAN
 Client Reference No.: 19119
 Address: SHAHID BEHESHTI - HEJRAT HIGHWAY-BASIJ-HIGH WAY-TEHRAN
 Sample Name: Blue colored salt

Lab. Environmental Conditions

- Temperature: 25°C
 - Humidity: 30%

Chemical Analysis

- Result of chemical analysis test:

Test Name	Test Reference Standard	Test Result
Cl	-	57.3
NO ₃ (mg/L)	Brucine	325
NO ₂ (mg/L)	Colorimetric	1.8
F (mg/L)	SPADNS	<13
Br (mg/L)	Phenol Red colorimetric	1125
SO ₄ (%)	INSO 2353-1392	0.31
PO ₄ (mg/L)	Stannous chloride	<1.3
I (mg/L)	Catalytic Reduction	<1.3
NH ₄ (mg/L)	Nesslerization	25

Notes

- The amount of "NaCl" according to calculation from "Na" is 77.0%.
- The amount of "KCl" according to calculation from "K" is 22.3%.
- The analysis depends on sampling and uniformity of sample.

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Chemical Analysis, XRD

According to: BS EN 13925-1: 2008
INSO 21951-1

Preparation of sample:

Current : 30 mA

2 θ : 4-70°No grinded ☐

Voltage : 40 kV

Step Size: 0.05

grinded ☒

Anode : Cu

Counting time: 0.5 sec

Result of chemical compound, XRD:

- | | |
|------------|------|
| 1. Halite | NaCl |
| 2. Sylvite | KCl |

Notes

- XRD graph is attached.
- The analysis depends on sampling and uniformity of sample.

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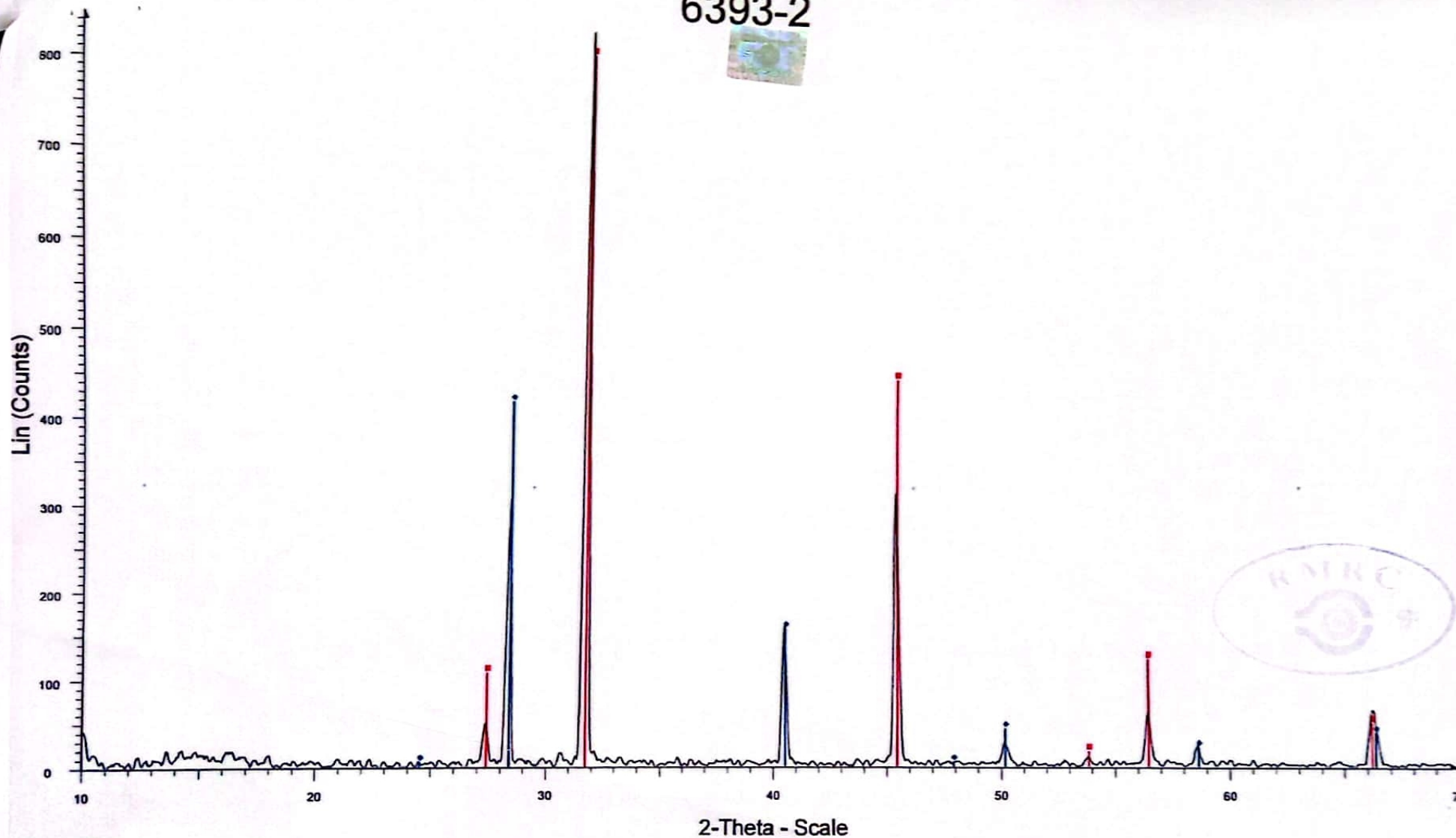
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6393-2



File: 6393-2.raw - Type: 2Th/Th locked - Start: 4.000 ° - End: 70.000 ° - Step: 0.050 ° - Step time: 2. s - Temp.: 25 °C (Room) - Time Started: 0 s - 2-Theta: 4.000 ° - Theta: 2.000 ° - Phi: 0.00 ° - Aux1: 0.0 - Aux2: 0.0 - Aux3: 0.0 - Dis
 Operations: Smooth 0.150 | Background 0.031, 1.000 | Import

05-0628 (*) - Halite, syn - NaCl - Y: 96.78 % - d x by: 1. - WL: 1.54056 - Cubic - a 5.64020 - b 5.64020 - c 5.64020 - alpha 90.000 - beta 90.000 - gamma 90.000 - Face-centred - Fm3m (225) - 4 - 179.425 - I/c PDF 4.4 - I/c User 1.

41-1476 (*) - Sylvite, syn - KCl - Y: 50.00 % - d x by: 1. - WL: 1.54056 - Cubic - a 6.29170 - b 6.29170 - c 6.29170 - alpha 90.000 - beta 90.000 - gamma 90.000 - Face-centred - Fm3m (225) - 4 - 249.060 - I/c PDF 1. - S-Q 34.1 %