

Certificate N°: 20071501EF



SGS

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CERTIFICATE OF ANALYSIS

REF: 2032263

DATE: 15.07.2020

CONSIGNEE : TO ORDER

DESCRIPTION OF CARGO : ILMENITE

QUANTITY : 11,000.000 MTS

DATES OF ATTENDANCE : From 28.06.2020 to 30.06.2020

SAMPLING: -

Systematic mass based manual sampling was carried out as per the IS 4166-1967 [Reaff: 2017] standards during loading of the cargo into the vessel holds for the purpose of sampling, the consignment was divided into requisite sublots.

SAMPLE PREPARATION: -

Composite sample was prepared by mixing all subplot samples [systematically as per the IS 4166-1967 [Reaff: 2017]. Twelve composite samples were prepared, labeled and sealed with our Holographic sticker.

The sample packets were distributed as under:

- 8 sealed sample packets to seller.
- 1 sealed sample packet was submitted to our in-house laboratory for analysis
- 3 sealed sample packets for record with SGS, Visakhapatnam.

SGS

SGS India Private Limited

Door No. 45-56-3/5/1, Plot No. 17 & 18,

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Moisture Test: All subplot wise samples [of total Shipment] were analyzed at our in-house laboratory for Moisture Content as per IS 1493 (Part-1)-1981 Reaff. 2011 standard and weighted results of all lots are as under: -

Moisture: 0.20% [Zero Decimal Two Zero]

Analysis: One ship composite sample [of total Shipment] was analysed for the below parameters at our in-house lab for below parameters (as per IS 9788-1981 [Reaff:2014] / IS 6744: Part-1 – 1972 [Reaff.2017] / In-house Methods i.e. SO-IN-MUL-TE-109) and the results obtained is as follows:

Chemical Analysis

TiO ₂	: - 50.40%
FeO	: - 34.30%
Fe ₂ O ₃	: - 12.32%
SiO ₂	: - 0.61%
Al ₂ O ₃	: - 0.33%
CaO	: - 0.01%
MgO	: - 0.48%
MnO	: - 0.41%
Cr ₂ O ₃	: - 0.03%
V ₂ O ₅	: - 0.076%
P ₂ O ₅	: - Not detected [DL:1.0 ppm]
U	: - Not detected [DL:1.0 ppm]
Th	: - 22 ppm

Manual Sampling method was agreed to with the SGS Principal, as sampling by more reliable methods that provide probability samples was not possible. The Holder of this document is cautioned that collected MANUAL samples of this type do not satisfy the minimum requirements for probability sampling, and as such cannot be used to draw statistical inferences such as precision, standard error, or bias. The samples collected have an indicative value but cannot be deemed representative of the whole consignment.

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SGS
For SGS INDIA PRIVATE LIMITED
[Signature]



SGS India Private Limited

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