



**REPORT OF QUALITY AND QUANTITY**

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PRINCIPAL : TIGER CEMENT LIMITED – ASPHALT CEMENT (BITUMEN PRODUCTS) PLOT NO. 06, SECTOR B-X, MEHRAN AVENUE, EXPORT PROCESSING ZONE, KARACHI – PAKISTAN

GOODS DESCRIPTION AS PROVIDED BY PRINCIPAL : BITUMEN ASPHALT TIGER BRAND 60/70

VESSEL : 01) GULF BARAKAH VOY: 510S  
 02) GULF BARAKAH VOY: 510S

B / L NUMBER : 01) 250610238 DATED: 2025-04-07  
 02) 250610515 DATED: 2025-04-07

QUANTITY : 01) 1650 DRUMS IN 15X20FT CONTAINERS  
 02) 1100 DRUMS IN 10X20FT CONTAINERS

PORT OF DISCHARGE : PORT LOUIS

INSPECTION PLACE : KEPZ – KARACHI

INSPECTION PERFORMED ON : 04 & 05 MAR 2025

This is to report that, in accordance with instructions received from our principal, we attended their advised location Karachi Export Processing Zone – Karachi on 04 & 05 Mar 2025 to perform random sampling from the cargo tendered in steel drums, carry out the requested analyses on final composite sample. Whereas to witness the loading/stuffing operation of cargo into containers and weighbridge weighing. On which, we report our findings as follows,

**TENDERED CARGO**

At the time of our intervention, cargo was tendered in steel drums and laying in an open area on cemented floor.

**PACKING / MARKING**

The cargo was in solid form and filled/packed in steel drums, mouth covered by lid. As far as visible, the tendered drums were found apparently in sound condition. No marking was found on tendered steel drums.



**RANDOM SAMPLING**

Total of 14 drums were selected randomly on cube root basis as per ASTM D140/D140M (Standard Practice for Sampling Asphalt Materials) from the total tendered cargo of 2750 drums.

Upon completion of sampling exercise, collected sample split in 03 sets, preserved in metal container, kept in double WPP bag, duly labeled, sealed and brought to SGS Karachi office.

**SAMPLE DISTRIBUTION**

- One set of sealed sample submitted in subcontracted lab for the analysis of principal requested parameters as tabulated below.
- One set of sealed sample handed over to principal representative for their reference and record.
- One set of sealed samples retained with SGS for the period of One month from the date of sampling, unless otherwise instructed.



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### ANALYSIS

Analysis result obtained from subcontracted lab are reproduced as under,

Sr. #	Test Parameter	Test Method	Results
01	Specific Gravity at 25/25° C	D-70	1.032
02	Ductility @ 25 °C, 5cm/min, cm	D-113	>100
03	Penetration @ 25 °C, 100 gm, 5 Sec, 1/10mm	D-5	64
04	Flash Point (COC), °C	D-92	340
05	Softening Point (R & B), °C	D-36	54
06	Loss on heating @ 163 °C 5 hrs <ul style="list-style-type: none"> <li>• Loss by weight, %</li> <li>• Drop in Penetration, %</li> </ul>	D-6	0.136 17.0
07	Retained Penetration after TFOT, %	D-5	83
08	Penetration after loss on heating 25 °C, % of original	D-5/D-6	83
09	Solubility In Trichloro Ethylene, Wt%	D-165	99.7
10	Spot test	T-102	Negative

### WITNESSING OF LOADING / STUFFING OPERATION

Prior to the loading of cargo into containers, plastic sheet attached in both side of the containers wall and wooden ply sheet was placed on containers floor. During our intervention, all the drums were loaded/stuffed into containers with the help of fork lifter. As per client/shipper's tally and our random check, total of 2750 drums (each container load with 110 drums) were loaded into 25x20ft containers.

Details of each container number are given as under,

No.	Container No	No. of Drums	Wt. Of Truck with Loaded Container in Kg	Wt. Of Truck with Empty Container in Kg	Gross weight of cargo (kg)	SGS Seal No
<b>Containers covered under BL # 250610238</b>						
1	MSKU-445928-8	110	34,680.000	14,200.000	20,480.000	I048901
2	MSKU-357723-9	110	35,840.000	14,750.000	21,090.000	I048902
3	MRKU-913526-9	110	35,790.000	14,760.000	21,030.000	I048903
4	SUDU-778985-7	110	38,880.000	17,760.000	21,120.000	I048904
5	MSKU-726337-0	110	30,900.000	9,940.000	20,960.000	I048905
6	MRKU-663848-6	110	38,250.000	17,350.000	20,900.000	I048906
7	MSKU-550246-0	110	35,970.000	14,840.000	21,130.000	I048907
8	SUDU-774668-6	110	36,820.000	15,770.000	21,050.000	I048908
9	MSKU-431684-1	110	35,760.000	14,700.000	21,060.000	I048910
10	MRKU-925746-2	110	35,410.000	14,420.000	20,990.000	I048909
11	MRKU-746334-0	110	36,810.000	15,840.000	20,970.000	I048918
12	MRKU-797492-6	110	35,640.000	14,540.000	21,100.000	I048919
13	TCKU-136123-0	110	38,900.000	17,670.000	21,230.000	I048920
14	MSKU-784368-2	110	38,830.000	17,790.000	21,040.000	I048924
15	MRKU-742670-6	110	35,710.000	14,770.000	20,940.000	I048925
<b>Total</b>		<b>1650</b>	<b>544,190.000</b>	<b>229,100.000</b>	<b>315,090.000</b>	<b>--</b>



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Containers covered under BL # 250610515						
16	MRKU-764441-5	110	35,650.000	14,630.000	21,020.000	I048911
17	SUDU-147976-7	110	35,190.000	14,310.000	20,880.000	I048912
18	MRKU-851166-0	110	38,060.000	16,890.000	21,170.000	I048913
19	MSKU-587301-3	110	35,870.000	14,780.000	21,090.000	I048914
20	MRKU-993079-0	110	35,910.000	14,730.000	21,180.000	I048915
21	MSKU-722311-0	110	36,830.000	15,810.000	21,020.000	I048916
22	MSKU-777756-0	110	35,830.000	14,910.000	20,920.000	I048917
23	MRKU-973079-1	110	38,940.000	17,850.000	21,090.000	I048921
24	SUDU-778811-0	110	35,670.000	14,670.000	21,000.000	I048922
25	MSKU-448539-5	110	35,440.000	14,420.000	21,020.000	I048923
<b>Total</b>		<b>1100</b>	<b>363,390.000</b>	<b>153,000.000</b>	<b>210,390.000</b>	--
<b>Grand Total</b>		<b>2750</b>	<b>907,580.000</b>	<b>382,100.000</b>	<b>525,480.000</b>	--

### PICTURES



Tendered cargo



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Random Sampling



Loaded / Stuffed Cargo

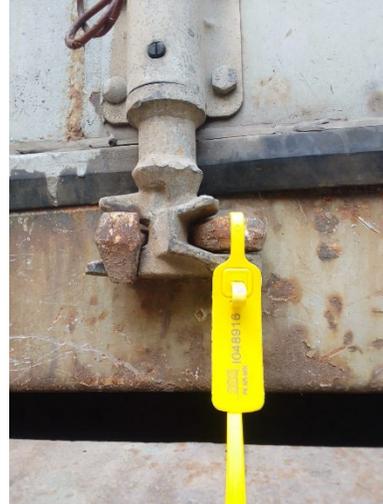




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### Loaded / Stuffed Cargo



### Loaded container with SGS Plastic Seal

The responsibility for the above findings is limited to time, date and place of intervention only and does not refer to any other matter. Whereas this report validity is limited to the duration of vessel's voyage.

The manual sampling method was agreed 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.

Due to the inaccessibility of part of the cargo, the samples collected have indicative value only and will not necessarily be representative of the entire cargo, but only of that part accessible and sampled at the date, time, and place of inspection. SGS has no responsibility and/or liability for the consequences of any action taken or not taken on the basis of our issued report.

In accordance with principal's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's weighbridge/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the testing methods applied the qualifications, actions or omissions of the third party's personnel or the testing results.

If the requirements of the client necessitate the analyses of samples by the client's or by any third party's laboratory (non SGS lab) the company will pass on the result of the analysis but without responsibility for its accuracy.

This document is issued by the Company subject to its General Conditions of Service ([www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.

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**Signed and dated in**  
 KARACHI - Pakistan  
 8th April 2025

**SGS Pakistan (Private) Limited**

