



SGS Gulf Ltd.
P.O.Box: 18556, SGS Building,
St. No: 1243
Jebel Ali Free Zone
Dubai - UAE
Tel: +971-4-883 2222
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INSPECTION REPORT

Inspection report No: INDIV-DXB/7650-01
Issue No: 01, Rev. 00
Report submission date: 08.06.2021
SGS Job No.: 50007650

Internal Work Order
Inspection Instruction

A. Project:	Tender # HO20190248 Supply of Polycarbonate (PC), High Density Polyethylene (HDPE)/Glass Reinforced Plastics (GRP) for underground line plant furniture.	B. Supplier:	Smithline Reinforced Composite FZ- LLC. Jazeerah Al Hamrah Free Zone, Ras Al-Khaimah, U.A.E.
Project Ref. No.:	Tender # HO20190248	Details:	Visual Inspection, Witness of Dimensional Check and Load Test of the Manhole Chambers for Product Qualifications. (Qty-08 no's)
P.O. Ref No:	SMITH / 2626 / 21 May dated 23/05/2021.	Job No:	
C. Inspection:	Pre-Shipment Inspection	D. Sub-Supplier:	N/A.
Customer Ref. No:	N/A	Details:	N/A.
Int. Ref. No (EA):	50007650	Job No:	N/A.
E. Customer:	ETISALAT, UAE.	F. Place of Inspection:	Smithline Reinforced Composite FZ- LLC. Ras Al Khaimah, UAE.
Country:	UAE.	Contact Person:	Mr. Libin Lal Mohammed
Customer Ref. No.:	N/A	Address:	Smithline Reinforced FZ-LLC JAZEERAH, RAK, UAE.
G. Executing SGS office data:	SGS Gulf Limited	Phone/Fax:	0521035761
Country:	United Arab Emirates	Email-Address:	libin@smithlinecomposites.com
Coordinator:	Hossan Ikkal.	P.O. at supplier:	N/A.

H. Inspection type:	Spot inspection <input checked="" type="checkbox"/>	Project inspection <input type="checkbox"/>
Pre-production <input type="checkbox"/>	During production <input type="checkbox"/>	Pre-Shipment <input type="checkbox"/>

I. Scope of Work:	<i>Requested</i>			<i>Performed</i>	<i>Comments</i>
	<i>inspect</i>	<i>witness</i>	<i>Review</i>		
Load Test for Manhole Chambers Product Qualification.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Visual Inspection, Witness of Dimensional Check and Load Test of the Manhole Chambers for Product Qualifications.

Further description:	
J. Equipment/Goods requested for inspection:	Visual Inspection, Witness of Dimensional Check and Load Test of the Manhole Chambers for Product Qualifications (Qty-08 no's).
Deviations during inspection:	No (if yes, see report details)

K. Applicable Norms, Standards and specifications:	As per agreed scope of inspection.	Verified during inspection:
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L. Referenced Documents:	Reference No	Rev No.	Attached to request	At place of inspection	Document used
Commercial Invoice	Tender # HO20190248	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inspection and Test Plan. (Manhole Chambers)	ITP-MANHOLE - 03	Rev 01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Load Test Procedure. (Manhole Chambers)	SRC-P-023	Rev 02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Quality Control Documents (Dimensional Check Reports, Load Test Reports, Material test Certificates).	Various	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
M. Inspection Dates:	26.05.2021 and 27.05.2021				
N. No. of inspection man days: (based on 8h)	02 man-days.				

O. Inspection result:	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Conditionally Accepted <input type="checkbox"/> Non-conforming (see report details) <input type="checkbox"/> Rejected (see report details) <input type="checkbox"/> Aborted inspections (see report details)	P. NCR/Punch list issued:
		<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (see report details)
Q. Inspection summary and short conclusion:	<p>During the inspection visit, the following activities were carried out :</p> <ul style="list-style-type: none"> - Witnessed Dimensional Checks as per Drawings for the Manhole Chambers (Qty-08 no's.). - Witnessed the Load Test as per Load Test Procedure -SRC-P-023 rev 02. - Performed Visual Inspection after the testing (for presence of any cracks, defects etc) in the Manhole Chambers (Qty-08 no's) - Reviewed Material Test Certificates, Load Test Reports and the Manhole Inspection reports. <p>One of Manhole Chambers (DN 1000 PRE-FABRICATED GRP MANHOLE CHAMBER HEIGHT1000 MM) failed the Test, due to the crack observed on Top of Cover Plate.</p> <p>The remaining 07 no's of Manhole Chambers passed the Load Test and Inspections and were found to be satisfactory.</p>	
Inspector:	Shujath Asim Mohammed	Date: 08.06.2021
Approved:	Hitesh Mohanlal	Date: 08.06.2021





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THE ABOVE REFLECTS OUR FINDINGS AT TIME AND PLACE OF INSPECTION. THIS REPORT DOES NOT RELEASE BUYERS OR SELLERS FROM THEIR CONTRACTUAL RESPONSIBILITIES NOR DOES IT PREJUDICE BUYER'S RIGHT OF CLAIM TOWARD SELLERS/SUPPLIERS FOR COMPENSATION FOR ANY APPARENT AND/OR HIDDEN DEFECTS NOT DETECTED DURING OUR INSPECTION OR OCCURRING THEREAFTER.

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For the witness Tests, the Company's involvement has been limited to witnessing/observing of test done at the vendor's facility as per Client's instructions. The Company's sole responsibility was to be present at the time of the test and 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 analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

R. REPORT DETAILS

R.1. Attendees

Sr. No	Name	Designation	Email / Mob No.
1	Mr. Libin Lal Mohammed	Engineer/SMITHLINE	libin@smithlinecomposites.com/0521035761
2	Mr. Anvarsha Basheer	QC Engineer/SMITHLINE	qc@smithlinecomposites.com/055056772
3	Mr. Shujath Asim MD	SGS Gulf Limited/TPI	Shujath.asim@gmail.com / 0505507761
4	Mr. Lijo Mathew	Client/ETISALAT	limathew@etisalat.ae/0569470313
5	Mr.Muhammed Unais	Client/ETISALAT	N/A

R.2. Documents used

Sr. No	Document Name
1	Inspection Test Plan, ref. ITP-MANHOLE-03 Rev 01.
2	Load Test Procedure Ref. SRC-P-023 Rev 02.
3	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C1000-MHC-001.
4	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C1000x1000-MHC-001.
5	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C800-MHC-001.
6	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C1000x800-MHC-001.
7	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C1000-MHC-002.
8	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C1000x1000-MHC-002.
9	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C800-MHC-002.
10	Dimensional Drawings Tender HO20190248 ref.SRC-DWG-ETC-C1000x800-MHC-002.

R.3. Measuring equipment used

Sr. No	Equipment / Tool Name	Calibration Date (Due)
1	Deflection Gauge	03.03.2022
2	Load test Machine	15.05.2022
3	Measuring Tape	03.03.2022



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R.4. Equipment / Goods inspected:

Sr. No	ITEM DESCRIPTION	SIZE (mm)	DEPTH (mm)	LOAD TEST RESULTS	Remarks
1	DN 1000 PRE-FABRICATED GRP MANHOLE CHAMBER HEIGHT 1000 MM	DN1000	1000	FAILED	Failed at 390 KN, crack observed on Top of Cover Plate.
2	1000 x 1000 PRE-FABRICATED GRP MANHOLE CHAMBER	1000 x 1000	1000	PASSED	--
3	DN 800 PRE-FABRICATED GRP MANHOLE CHAMBER	DN800	1000	PASSED	--
4	1000 x 800 PRE-FABRICATED GRP MANHOLE CHAMBER	1000 x 800	1000	PASSED	--
5	DN 1000 PRE-FABRICATED GRP MANHOLE CHAMBER	DN1000	1500	PASSED	--
6	1000 x 1000 PRE-FABRICATED GRP MANHOLE CHAMBER	1000 x 1000	1500	PASSED	--
7	DN 800 PRE-FABRICATED GRP MANHOLE CHAMBER	DN800	1500	PASSED	--
8	1000 x 800 PRE-FABRICATED GRP MANHOLE CHAMBER	1000 x 800	1500	PASSED	--

R.5. Inspection activities and results.

As per ITP:

- Clause (1.1): Witnessed the Dimensional Checks as per the Drawings for the Manhole Chambers (Qty-08 no's.).
- Clause (1.2): Reviewed reports of the Curing Barcol Hardness Measurements for the Manhole Chambers (Qty-08 no's), as per ASTM D 2583.
- Clause (1.3): Witnessed the Load Test and performed Visual Inspection after Testing (for presence of any cracks, defects etc) for the Manhole Chambers (Qty-08 no's), as per Load Test Procedure (SRC-P-023 rev 02).
- Clause (1.4): Reviewed Material Test Certificates, Load Test reports, Manhole Inspection reports.

Result:

One of Manhole Chambers (DN 1000 PRE-FABRICATED GRP MANHOLE CHAMBER HEIGHT 1000 MM) failed the Test, due to the crack observed on Top of Cover Plate.

The remaining 07 no's of Manhole Chambers passed the Load Test and Inspections and were found to be satisfactory.



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R.6. Non-Conformities: None.

R.7. Actions required: The failed Man Hole Chamber Cover must be rectified and the Load Test has to be performed again on it, as per the ITP.

R.8. Conclusions

The following inspection activities were carried out:

- Witnessed Dimensional Checks as per Drawings for the Manhole Chambers (Qty-08 no's.).
- Witnessed the Load Test as per Load Test Procedure -SRC-P-023 rev 02.
- Performed Visual Inspection after the testing (for presence of any cracks, defects etc) in the Manhole Chambers (Qty-08 no's)
- Reviewed Material Test Certificates, Load Test Reports and the Manhole Inspection reports.

One of Manhole Chambers (DN 1000 PRE-FABRICATED GRP MANHOLE CHAMBER HEIGHT1000 MM) failed the Test, due to the crack observed on Top of Cover Plate.

The remaining 07 no's of Manhole Chambers passed the Load Test and Inspections and were found to be satisfactory.

R.9. Attachments:

- Manhole Inspection Reports.
- Passed Load Test Reports (Qty-07 no's).
- Calibration Certificates.
- Material Test Certificates.

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S. Inspection Photos



VERIFIED CHAMBER DIMENSIONS (DN-1000 mm)



VISUAL INSPECTION (DN-1000 mm)



VERIFIED DEFLECTION GAUGE CALIBRATION STATUS



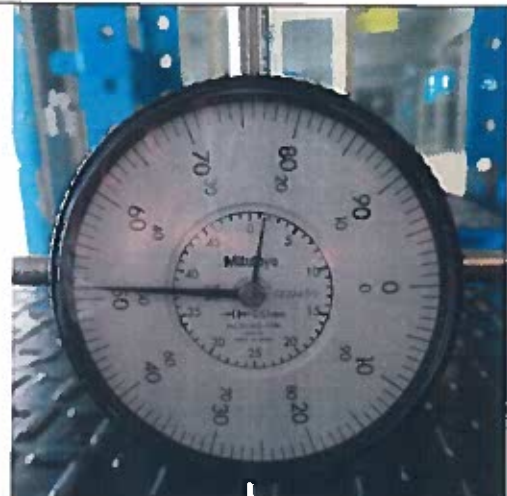
VERIFIED DEFLECTION INITIAL READING

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VERIFIED LOAD TEST READING (DN-1000mm)



VERIFIED DEFLECTION FINAL READING



VERIFIED LOAD TEST READING (DN-1000 mm)



VERIFIED LOAD TEST (DN-1000 mm)



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VISUAL INSPECTION (DN-1000)



VISUAL INSPECTION (DN-1000)



VERIFIED CHAMBER DIMENSIONS (DN-1000 mm)



VISUAL INSPECTION (DN-1000 mm)

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VERIFIED DEFLECTION INITIAL READING



VERIFIED DEFLECTION INITIAL READING



VERIFIED LOAD TEST READING (DN-1000 mm)



VERIFIED DEFLECTION FINAL READING

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VERIFIED LOAD TEST READING (DN-1000 mm)



FOUND CRACK ON COVER PLATE (DN-1000 mm)



FOUND CRACK ON COVER PLATE (DN-1000 mm)



FOUND CRACK ON COVER PLATE (DN-1000 mm)

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VERIFIED CHAMBER DIMENSIONS (DN-1000 mm)



VISUAL INSPECTION (DN-1000 mm)



VERIFIED DEFLECTION INITIAL READING



VERIFIED DEFLECTION INITIAL READING

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VERIFIED LOAD TEST READING (DN-1000 mm)



VERIFIED DEFLECTION FINAL READING



VERIFIED LOAD TEST READING (DN-1000 mm)



VISUAL INSPECTION (DN-1000 mm)

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VERIFIED CHAMBER DIMENSIONS (DN-800 mm)



VERIFIED DEFLECTION INITIAL READING



VERIFIED DEFLECTION INITIAL READING



VERIFIED DEFLECTION INITIAL READING

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VERIFIED LOAD TEST READING (DN-800 mm)



VERIFIED LOAD TEST READING (DN-800 mm)



VERIFIED DEFLECTION FINAL READING



VERIFIED LOAD TEST READING (DN-800 mm)

INSPECTION REPORT

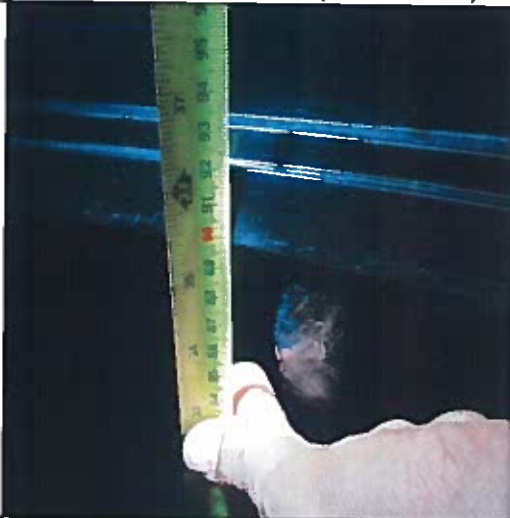
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VISUAL INSPECTION (DN-800 mm)



VISUAL INSPECTION (DN-800 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(900 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(900 mm)

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DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(1000 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(1000 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(850 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(850 mm)

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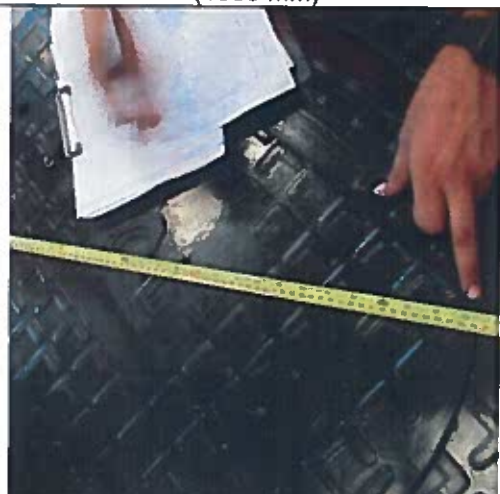
DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(1050 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(1050 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(700 mm)



DIMENSIONAL CHECK OF MAN HOLE CHAMBER
(700 mm)

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DIMENSIONAL CHECK OF MAN HOLE CHAMBER (70 mm)



DIMENSIONAL CHECK DIA (850 mm)



VERIFIED CHAMBER DIMENSIONS (DN-800 mm)



VERIFIED DEFLECTION INITIAL READING

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VERIFIED LOAD TEST READING (DN-800 mm)



VERIFIED DEFLECTION FINAL READING



VERIFIED LOAD TEST READING (DN-800 mm)



VERIFIED LOAD TEST READING (DN-800 mm)

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VERIFIED CHAMBER DIMENSIONS (DN-1000 mm)



VERIFIED DEFLECTION INITIAL READING



VERIFIED LOAD TEST READING (DN-1000 mm)



VERIFIED DEFLECTION FINAL READING

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VERIFIED LOAD TEST READING (DN-1000 mm)



VISUAL INSPECTION (DN-1000 mm)



VERIFIED CHAMBER DIMENSIONS (DN-1000 mm)



VERIFIED DEFLECTION INITIAL READING

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VERIFIED DEFLECTION INITIAL READING



VERIFIED LOAD TEST READING (DN-1000 mm)



VERIFIED DEFLECTION FINAL READING



VERIFIED LOAD TEST READING (DN-1000 mm)

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VERIFIED CHAMBER DIMENSIONS(DN-1000 mm)



VERIFIED DEFLECTION INITIAL READING



VERIFIED LOAD TEST READING (DN-1000mm)



VERIFIED DEFLECTION FINAL READING

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VERIFIED LOAD TEST READING (DN-1000 mm)



MAN HOLE CHAMBERS (QTY- 08 no's)

-- END OF REPORT--