

			Verification Report		CSA Group	
Client	Cliff Scaffoldings (P) Limited			VR Number: 70185454		
				Issue Date: 2018/07/12		
Project	Test Witnessing		Client P. O.	CSPL/PO-1315/2018-19/SERVICE INSPECTION		
Qualification	<input checked="" type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical		<input type="checkbox"/> Other		
Inspection dates: 2018-06-21				Order Status	Completed	
First	2018-06-21	Final	2018-06-21	Number of visits	1 (one)	

1.0 Project Details

Client PO	CSPL/PO-1315/2018-19/SERVICE INSPECTION	CSA Order	3126952	
Manufacturer	Cliff Scaffoldings (P) Limited Plot 129A, Noida Special Economic Zone, Noida, Uttar Pradesh, UP – 201305. India	Contact Name	Mr. Nikhil Shingla	
		Phone	██████████	
		Email	████████████████████	
Inspection Location	Cliff Scaffoldings (P) Limited Plot 129A, Noida Special Economic Zone, Noida, Uttar Pradesh, UP – 201305. India & Spectro Analytical Labs Limited S-1, GNEPIP, Surajpur Industrial Area, Phase-V, Kasna, Greater Noida-201308 India			
Equipment Description	3 Tier Ring-lock System Tower with following parts (Model no. X Type X Description) 1. CSRS2M, Vertical, Vertical Height 2M 2. CSRL213M, Ledger, Ledger Length 7' 3. CSRL152M, Ledger, Ledger Length 5' 4. CSRB74F, Diagonal Brace, Diagonal Brace 7' X 2M 5. CSRB54F, Diagonal Brace, Diagonal Brace 5' X 2M 6. CSSJB38M2F, Screw Jack, Screw Jacks 38mm X 610mm			
Quantity	One Complete Structure			
Verification Scope	<input type="checkbox"/> Visual examination	<input checked="" type="checkbox"/> Test Witnessing	<input checked="" type="checkbox"/> Document Review	<input type="checkbox"/> Dimensional check



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2.0 Equipment Details

Description	Serial #	Tag #	Drawing #
3 Tier Ring-lock System Tower	N/A	N/A	N/A

3.0 Verification Activities

Description	Reference document	Comments
Witnessing of Tower Load Test and Component Mechanical Tests	CSA S269.2-16	Tests were designed, planned and performed by Cliff Scaffoldings (P) Limited and third party lab Spectro Analytical Labs Limited respectively.

4.0 Test equipment details:

Instrument Description	Calibration details including certification	Comments
Pressure Gauge	See attached Calibration Certificate no. N180628014/N180628014-1	Calibration certificate verified.
UTM 20 TON MODEL NO-WAW 200B	See attached Calibration Certificate no. N180522002/N180522002-1	Calibration certificate verified.

5.0 Applicable Specifications

Description	Reference document	Comments
Tower vertical load test	Clause 8.3.3 of CSA S269.2-16	Test procedure followed as per corresponding clause number.
Ledger vertical shear test	Clause 8.3.4 of CSA S269.2-16	Test procedure followed as per corresponding clause number.
Ledger horizontal shear test	Clause 8.3.5 of CSA S269.2-16	Test procedure followed as per corresponding clause number.

6.0 Details of Verification Activities

On 21st of June 2018 CSA Group (www.csagroup.org) Verification Service Representative(s) and Structural Engineer for A.Sen & Associates have visited the following locations to witness the tests as described below.



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Cliff Scaffoldings (P) Limited

Plot 129A,
Noida Special Economic Zone, Noida,
Uttar Pradesh, UP – 201305.
India

&

Spectro Analytical Labs Limited

S-1, GNEPIP,
Surajpur Industrial Area,
Phase-V, Kasna,
Greater Noida-201308

The following tests were witnessed by CSA Group representative(s):

1. Tower vertical load test as per Clause 8.3.3 of CSA S269.2-16
2. Ledger vertical shear test as per Clause 8.3.4 of CSA S269.2-16
3. Ledger horizontal shear test as per Clause 8.3.5 of CSA S269.2-16

7.0 Verification Summary / Results

The performed tests and relevant measurements were witnessed by CSA Group representative(s) and were recorded as below:

1. Tower vertical load test (Clause 8.3.3 of CSA S269.2-16)

Test Method:

- "A" Series test method is used for testing.
- The representative towers has been tested one bay wide and one bay long, composed of four vertical scaffold standards, by three tiers high to arrive at an anticipated allowable tower load. The system scaffold components has been erected freestanding in the above configuration with adjusting screws extended to 300 mm (12 in) beyond the scaffold standard on the bottom

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