

## Minutes Of Meeting

Date : 02.10.21  
Time : 2.00 p.m to 6.00 p.m

**Subject: Load Test Inspection of FRP walkway for JIL-Ranihati 4.75 MWp**

### Participants

Koushik Mondal (BECIS)  
Ramkishore (SG & PREPL)  
Subhadip Roy (ARC Insulations)

Venue: ARC Insulations & Insulators, Ramdevpur, Factory.

### Load test Procedure :

Load test was done on selected gratings in 3 different spans i.e, 700,600 & 400 mm .  
Breaking point of the gratings 21.12kN, 19.07kN, 19.08 kN (Average - 19.75kN)  
satisfied span concluded as 400mm

### Equipment & Tools used while inspected

Digital Universal test machine (Sr No: 2010 A 1020)  
Digital Vernier Callipers (Sr No: 1811365)  
Measurement Tape

### Observations:


1. Very minor cracks observed on the corners of mesh.By the time it will delivered to the site there will be no such cracks. ARC & Sungreen to ensure the same.(Reference Photos enclosed with report)
- 2.Severe cracks observed in the middle of the ribs. All such quantity should be replaced with fresh gratings and repairing with resin is not acceptable.(Reference Photos enclosed with report)
- 3.Several pin holes (Like an honeycomb in concrete works) have been observed.

### Conclusion:

1. Material should be inspected before dispatch
2. Material will be dispatch only after clearance.

  
02/10/2021  
Koushik Mondal  
BECIS

  
02/10/21  
Ramkishore  
Sungreen

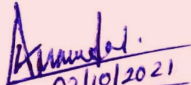
  
Subhadip Roy  
(ARC Insulations)

**Load test report of FRP walkway gratings**


Material Description		Support Span of 700mm & Applied load is 1.6KN				
FRP Walkway 1290X367X25 mm						
Sr.No	Characteristics	1	2	3	4	5
1	Deflection in MM	9.88	7.8	10.01	13.85	6.65
2	Average deflection in mm	9.638				
3	Result	Not satisfactory				
Material Description		Support Span of 600mm & Applied load is 1.6KN				
FRP Walkway 1290X367X25 mm						
Sr.No	Characteristics	1	2	3	4	5
1	Deflection in MM	2.59	1.86	2.86	3.09	2.39
2	Average deflection in mm	2.558				
3	Result	Not satisfactory				

Material Description		Support Span of 400mm & Applied load is 1.6KN				
FRP Walkway 1290X367X25 mm						
Sr.No	Characteristics	1	2	3	4	5
1	Deflection in MM	0.2	0.11	0.3	0.32	0.12
2	Average deflection in mm	0.21				
3	Result	Satisfactory				

Sr.No	Characteristics	1	2	3	4	5
1	Breaking point of the gratings i	NA	NA	21.12	19.07	19.08
2	Average breaking point	19.75				

  
02/10/2021  
Koushik Mondal  
BECIS

  
Ramkishore  
Sungreen

  
Subhadip Roy,  
(ARC Insulations)