1	Environmenta	al Management Plan					
EMP Compliance attached for EC: J11011/949/2008-IA II Dated : 17 <sup>th</sup> March, 2009							
S.No	Condition	Complied Status					
	Air Environment						
1	Chrysotile Fiber, Fly ash, Cement and other additives will be used as raw materials.	We use the following as our raw material Cement, F ash, Chrysotile fibre and other additives.					
2	Raw materials like asbestos fibre and cement shall be transported in closed containers.	,					
3	Asbestos fibre shall be brought in palletized form in impermeable bags and under compressed condition.	eable bags packed in impermeable bags under compre					
4	There shall be no manual handling/opening of asbestos fiber bags. The Unit shall install fully automatic asbestos fiber debagging system before commissioning the unit.	We have fully automatic fibre bag opening device where in all our fibers are opened and processed in closed condition.					
5	Bag filters followed by wet washer shall be provided at automatic bag opening machine, bag shredder and fiber mill to collect the dust and recycle into the process.	bag opening machine as a process with wet washer shredder and Edge runner mill to collect the dust and					
6	Bag filters will be provided to stacks attached to cement/fly ash circuit, fiber circuit and rejected sheet and pipes pulverizer, silo of cement & fly ash.	Cement/fly ash circuit, fiber circuit and Pulverize					
7	Dust extraction and dust suppression system shall be provided to all transfer points.	We have dust extraction hood connected to all raw material transfer points and the same is connected to the dust collectors.					
8	All efforts shall be undertaken to maintain the SPM emission levels from the main stacks within 20mg/Nm3.	All our stacks are being maintained and measured at regular frequency by PCB approved third party. Fiber mill stack - <2mg/Nm3, Cement/fly ash stack - <50mg/Nm3, DG Set stack - < 50mg/Nm3 (Annexure II)					

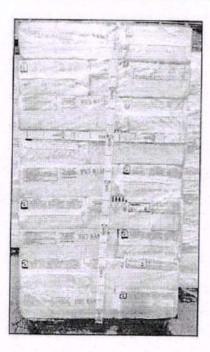
9	Asbestos emissions due to storage, transportation, etc. and spillages shall be continuously monitored and controlled as per CPCB Norms & Guidelines.	being monitored by in house every month and third party every six months and found to be well within norms of 0.1f/cc at workplace and 0.2f/cc at fiber stack. Emission report for the same is enclosed for your kind reference. (Annexture III)						
10	The unit shall adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees etc.	The raw materials are transported in closed containers. Asbestos is brought in impermeable bags under compressed conditions, stretch wrapped with polythene covers. These are stacked in wooden pallets and are handled with fork lift only and no manual handling is involved.						
11	The periodical evaluation for the efficiency performance of Bag filters shall be carried out.	manual handling is involved. Manometers are connected to all our dust collectors and same are monitored daily for efficiency of Dust Collectors. (Annexure IV)						
12	Rejected and broken sheets along with bag filter dust shall be reused in the manufacturing process.	We have pulverizer machine to powder the rejected and broken sheets and the same will be consumed in the process along with dust collected from bag filter.						
13	All the internal roads shall be concreted and black topped to reduce fugitive emissions.	All our internal roads are made with concrete and black topped, there by no dust emissions due to vehicle movement.						
14	Periodical Monitoring Reports on Ambient Air Quality, Stack Emissions, Fugitive emissions, Noise Levels, etc. Shall be submitted to the Statutory Authorities.	All our Periodic monitoring reports on air quality, Stack emission & noise levels are submitted once in 3 months to the board.						
	Noise Levels							
1	All rotating items are well lubricated and provided with enclosures as far as possible to reduce noise termination.	All our rotating parts are lubricated and provided with safety guards to minimise noise levels.						
2	Extensive vibration monitoring systems are provided to check and reduce vibrations.	All our machines are subjected to preventive maintenance once in a fortnight and ensure repaired parts are changed to ensure no vibrations.						
3	Provisions of silencers are made wherever possible.	We have provided silencers for all noise generating equipment.						
4	Green Belt will also act as noise reducers.	We have developed more than 33% of greenbelt in our factory area.						
5	Proper lubrication and house keeping are maintained to avoid excessive noise generation. Water Environment	Housekeeping work is being carried out on a daily basis.						
1		All our process waste water are 100% arms die						
1	No waste water discharge from the Plant and Zero Discharge practice shall be adopted.	All our process waste water are 100% reused in our process itself and thereby we adopt Zero discharge system in our Plant.						
2	Water control measures shall be undertaken.	We take water from SIPCOT for our daily usage. We have water meter to monitor usage on a continuous						

		basis. Also we have adopted water disposa measures of domestic waste water are connected to septic tank, followed by soak pit.					
3	The domestic sewages shall be treated in a septic tank so as to meet the TNPCB Discharge Norms and the treated sewage shall be used for Green Belt.	Domestic waste water generation is very low hence all our domestic sewages are connected to septi					
4	No percolation of treated sewage to the ground water table shall be done.	Our domestic waste water generation is ver- minimal. The domestic waste water is generated mainly from three points, Restroom near factory Administrative building and Canteen. Since all the above points are being generated from differen place, the per hour discharge from each point will be very minimal. This quantity is very minimal and we are having 3 separate septic tank to handle. There is no possibility of sewage percolating to the ground.					
5	Periodical monitoring of Raw & Treated Sewage shall be undertaken for the TNPCB Consent Norms.	Domestic waste water generation is very low hence, all our domestic sewages are connected to seption tank, followed by soak pit.					
6	Rain Water Harvesting shall be undertaken as proposed from the Roof Tops of Plant to supplement the raw water supply.	We have provided 2 nos of rain water harvesting structure where all the run offs rain water will be harvested. Photos of the same enclosed. (Annexure V)					
	Land Environment						
1	Dust collected from various Air Pollution Control Measures like Bag Filters etc. are totally recycled in the process.	along with raw materials in the process on a daily					
2	No solid wastes/hazardous wastes generation from the plant.	There is no solid/Hazardous waste generation from the plant as all our process wastes are completely recycled back into the process.					
	Green Belt						
1	An effective Green Belt of about 33% of the total area shall be maintained with trees of local species having a thick canopy cover.	h belt development. Local species and trees a					
2	The treated sewage shall be used fully for the Green Belt development.	We are Utilising all our treated domestic waste for the development of green belt					
3	A mixture of fruit , fuel, fodder and quick growing timber tree saplings, predominantly local flora/vegetations shall be preferred by keeping in view the agro-ecological and edaphic conditions of the areas.	Following are the list of trees & Plants developed for green belt. (Annexure VI)					
4	Green Belt maintenance contract may be awarded to the Women Self Hel Groups and Local Panchayats of the nearby villages.	We have provided manpower from nearby area for the maintenance of green belt.					

(T.Vijayakumar) Deputy General Manager

ANNEARS-I

## Impermeable bag compressed condition

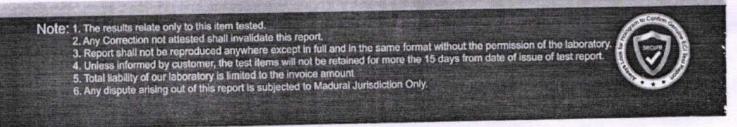




## Enviro Care® (Certified by ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018)

Report No : Customer Name & Address		M/s. Ram Plot No:12 Sipcot Inc Gangaiko	ECI-SM-2023/09/011 Report Date : 05.09.2023 M/s. Ramco Industries Ltd Plot No:12A, Sipcot Industrial Growth Centre Gangaikondan Tirunelveli Dist-627352						
Customer Reference :		IWO Date	IWO Date: 01/09/2023		Sample Reference No :		ECI-SM-2023/09/011		
Samp	le Drawn By :	ECI	ECI		Sample Received On :		01.09.2023		
Sample Collected Date :		01.09.2023		Test Co	Test Commenced On :		01.09.2023		
Qty of Sample Received :		Thimble 8	Thimble & 50 ml Soln		Test Completed On :		05.09.2023		
Sample Description :		Stack		Samplin	Sampling Method :		IS 11255 Part 01		
Samp	le Mark:	Fibre Mill	Dust Collector -	(Chimney)		1997			
S.No	PARAMETER	₹S	UNITS	RESULTS	TEST METH	OD	Max. Permissible TNPCB norms for General Emission Standards		
1	Ambient Temperature	Marken al	D.	32	IS 11255 Par	1 03	NA		
2.	Carbon dioxide (as CC	)2)	% (v/v)	< 0.2	IS 13270		NA		
3	Carbon Monoxide (as	CO)	% (v/v)	< 0.2	IS 13270		1.0		
4	Flow rate		Nm <sup>3</sup> /hr	2853	IS 11255:Par	rt 03	NA		
5.	Flue Gas velocity		m/sec	10.2	IS 11255:Part 03		03 NA		
6	Oxides of Nitrogen (as NOx)		mg/Nm <sup>3</sup>	< 1.0	IS 11255:Part 07		NA		
7.	Particulate Matter (PM)		mg/Nm <sup>3</sup>	1.1	IS 11255:Pa	rt 01	01 2.0 .		
8.	Port hole Height from G Leve		m	5.0			NA		
9.	Stack Diameter at port	hole	m	0.35	-		NA		
10. Stack Height from G Le		evel	m	26.0			NA		
11.	11. Stack Temperature		°C	105	IS 11255:Part		NA		
12.	Sulphur Dioxide (as S	O <sub>2</sub> )	mg/Nm <sup>3</sup>	< 1.0	IS 11255.Pa	rt 02	NA		
Rem requir	fied By : S. d. arks : In the abo rements of TNPCB stan		ned stack mee		r ENVIRO CARE		A PRIVATE LIMITED		
testec NA -	d Not Applicable		and a	ADURUALE	Author	ized S	5 Signatory		

#43, 2nd Street, Harvey Nagar, Arasaradi, Madurai - 625016 Tel: 0452 4355103 Email: lab@envirocareindia.com | Web: www.envirocareindia.com







ical)

	ress	Plot No. 12A,	Industries Ltd trial Growth Cen an	Report Date	e :	05.09	2023		
Customer Reference :		IWO Date: 01/09/2023		Sample Re	Sample Reference No :		ECI-SM-2023/09/013		
Sample Drawn By :		ECI		Sample Re	Sample Received On :		01.09.2023		
Sample Collected Date :		01.09.2023		Test Comm	Test Commenced On :		01.09.2023		
Qty of Sample Received :		Thimble & 50 ml Soln		Test Comp	Test Completed On :		.2023		
Sample Description :		Stack	Stack		Sampling Method :		IS 11255 Part 01		
Samp	le Mark:	DG 750 KVA	A - (Chimney)						
S.No	PARAMET	ERS	UNITS	RESULTS	TEST METH	OD	Max. Permissible TNPCB norms for General Emission Standards		
1.	Ambient Temperature		°C	32	IS 11255:Par	t 03	NA		
2	Carbon dioxide (as CO	O <sub>2</sub> )	% (v/v)	0.2	IS 13270		NA		
3	Carbon Monoxide (as CO)		% (v/v)	0.3	IS 13270		1.0		
4	Flow rate		Nm³/hr	1911	IS 11255:Part 03		NA		
5	Flue Gas velocity		m/sec	10.7	IS 11255:Part 03		NA		
6.	Oxides of Nitrogen (a	s NO <sub>x1</sub>	mg/Nm <sup>3</sup>	24.2	IS 11255:Part 07		. NA		
7.	Particulate Matter (PM	M)	mg/Nm <sup>3</sup>	30.2	IS 11255:Par	101	50		
8	Port hole Height from	G Level	m	5.0			NA		
9	Stack Diameter at por	rt hole	m	0.30			NA		
10.	Stack Height from G	Level	m	15.0			NA		
11	Stack Temperature		°C	163	IS 11255 Part 03		NA		
12	Sulphur Dioxide (as S	SO <sub>2</sub> )	mg/Nm <sup>3</sup>	8.1	IS 11255:Part 02		NA		
requi	fied By : S.C. harks : In the at irements of TNPCB meters tested Not Applicable	JOAC INCINUOUS	ed stack meet	End of Report	ENVIRO CARE (Chemica)	Testing	A PRIVATE LIMITED Laboratory) Signatory		

#43, 2nd Street, Harvey Nagar, Arasaradi, Madurai - 625016 Tel: 0452 4355103 Email: lab@envirocareindia.com | Web: www.envirocareindia.com

- Note: 1. The results relate only to this item tested.
  2. Any Correction not attested shall invalidate this report.
  3. Report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
  4. Unless informed by customer, the test items will not be retained for more the 15 days from date of issue of test report.
  5. Total liability of our laboratory is limited to the invoice amount.
  6. Any dispute arising out of this report is subjected to Madural Jurisdiction Only.





TEST REPORT Accredited by NABL ( Chemical & Biological ) Report No : ECI-SM-2023/09/012 Report Date : 05.09.2023 M/s. Ramco Industries Ltd Plot No 12A Customer Name Sipcot Industrial Growth Centre & Address Gangaikondan Tirunelveli Dist-627352 Customer Reference : IWO Date: 01/09/2023 Sample Reference No : ECI-SM-2023/09/012 Sample Drawn By : ECI Sample Received On : 01.09.2023 Sample Collected Date : 01.09.2023 Test Commenced On : 01.09.2023 **Qty of Sample Received :** Thimble & 50 ml Soln Test Completed On : 05.09.2023 Sample Description : Stack Sampling Method : IS 11255 Part 01 Sample Mark: Pulverizer Dust Collector (Chimney) Max. Permissible TNPCB S.No PARAMETERS UNITS RESULTS TEST METHOD norms for General Emission Standards 1 Ambient Temperature °C 32 IS 11255 Part 03 NA 2 Carbon dioxide (as CO-) % (v/v) < 0.2 IS 13270 NA 3 Carbon Monoxide (as CO) % (V/V) < 0.2 IS 13270 1.0 Flow rate 4 Nm<sup>3</sup>/hr 3712 IS 11255 Part 03 NA 5. Flue Gas velocity m/sec 9.3 IS 11255 Part 03 NA 6. Oxides of Nitrogen (as NOx) mg/Nm < 1.0 IS 11255 Part 07 NA 7 Particulate Matter (PM) mg/Nm 13 IS 11255 Part 01 2.0 8. Port hole Height from G Level m 60 NA 9 Stack Diameter at port hole m 0.40 NA ----10 Stack Height from G Level m 9.0 NA 11 Stack Temperature °C 73 IS 11255: Part 03 NA 12 Sulphur Dioxide (as SO2) mg/Nm <10 IS 11255 Part 02 NA <--- End of Report ---> Verified By : Remarks : In the above mentioned stack meets the For ENVIRO CARE INDIA PRIVATE LIMITED requirements of TNPCB standards with respect to the (Chemical Testing Laboratory) parameters tested NA - Not Applicable ms AD 1 Authorized Signatory

> #43, 2nd Street, Harvey Nagar, Arasaradi, Madurai - 625016 Tel: 0452 4355103 Email: lab@envirocareindia.com | Web: www.envirocareindia.com

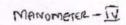
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STATE!



AMNEXURE - 11



## Manometer

