

.....  
DOC No. : 2206199 IDA Phase II, Cherlapally, Hyderabad, Medchal  
Telephone : +91 9959333415 Malkajgiri, Telangana, India - 500051  
FAX : -  
E-Mail : [cipetptchyd@gmail.com](mailto:cipetptchyd@gmail.com)  
BO Code : None

**Test REPORT AS PER : IS 12701 (1996)****QR Code/Barcode : 10000252638****REPORT NO : 815217/2022/SS/2\_1**

DATE : 30 Jun, 2022

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address : Phenix Polycontainers  
N-14 Addl. MIDC Satara, Satara, SATARA,  
MAHARASHTRA, INDIA - 415004

b) Nature of sample : SS

c) Grade/Variety/Type/Class Size etc : Cylindrical Vertical Tanks, Double Layer, 10000  
Ltrs

d) Declare values, if any : NA

e) Batch No. & Date of Manufacture : Trial/

f) Quantity : 1 Tank

g) Date of Receipt : 03 Jun, 2022

h) BIS Seal : Verified by Sample Cell

i) IO's Signature : Verified by Sample Cell

j) Any other Information / Expiry Date, If any : -/NA

k) Date of Commencement of Testing : 29 Jun, 2022

l) Date of Completion of Testing : 30 Jun, 2022

m) Section Code : 22C0884, 22M0E91

n) Section Report No. : 22C0884\_1, 22M0E91\_1

o) Report Type : New

p) Reference Report No. :

q) Remarks :

**D Mahesu**  
**OIC SAMPLE CELL**  
(Authorized Signatory)  
Authorized on: 30 Jun, 2022 11:39 AM

1. CIPET, Hyderabad

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PART B. SUPPLEMENTARY INFORMATION

- |  |     |
|--|-----|
| 1. Reference to sampling procedure, wherever applicable.   | Yes |
| 2. Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any. | Yes |
| 3. Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.   | No  |

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**CH Venkatesh**  
**OIC Mechanical**  
(Authorized Signatory)  
Authorized on: 30 Jun, 2022 11:11 AM

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## PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	7.6	overall Migration	conform to test	-	60.0	mg/l	33.0
2	7.5	Flexural Modulus	The flexural modulus shall be determined in accordance with IS 13360 (Part S1Sec 7): 1995. The flexural modulus of the wall of the water tank shall not be less than 300 N/mm2 The sample shall be taken as given in 7.4.2.	300.0	-	N/mm2	642.0
3	7.4	Tensile Strength	Tensile strength at yield shall be determined in accordance with IS 8543(Part 4/Sec 1) : 1984. The tensile strength of the wall of water tanks shall not be less than 12 N/mm2.The sample shall be taken as given in 7.4.2.	12.0	-	N/mm2	24.0
4	7.3	Test for Top Load Resistance	The tank shall be filled to 98 percent of its net capacity and shall be subjected for not less than 4 hours at outdoor temperature to compression by means of 100 kg load applied on the horizontal surface provided for a man to stand before entering the tank. After removal of the load the test specimen shall be inspected for deformation or crack on the surface and after 4 hours of the removal of the load the flat surface shall return to normal position. This test shall be applied to tanks with capacity 1500 litres and more.	-	-	-	CONFIRMED
5	7.2	Resistance to Impact	When polyethylene water tank is tested in accordance with the method as described in Annex C the impact shall neither result into cracking nor puncture of the tank	-	-	-	CONFIRMED

6	7.1.2	Resistance to Deformation	When rectangular loft tank is tested in accordance with the Method 2 described at Annex B the difference between the longitudinal measurements shall not be greater than 3 percent of the original measurements. (%)	-	-	-	-
7	7.1.1	Resistance to Deformation	When cylindrical vertical water storage tanks is tested in accordance with the Method 1 described at Annex B, the difference between the circumferential measurement shall not be greater than 2 percent of the original measurements. (%)	-	2.0	%	1.0
8	6.1	Finish	The internal and external surface of the water storage tank shall be smooth, clean and free from other hidden internal defects, such as air bubbles, pits and metallic or other foreign material inclusions. The mould parting line and excess material near the top rim of the tank shall be cut and finished to the required level. Defects like air bubbles and pits at mould parting line and at top rim of the main-man-hole shall be repaired by hot-air filler rod welding method.	-	-	-	SATISFACTORY
9	5.2 Table 2	Dimensions of Rectangular Loft Tanks	Minimum Internal Dia. of Hand Hole mm	-	-	-	-
10	5.2 Table 2	Dimensions of Rectangular Loft Tanks	Overall Height mm	-	-	-	-
11	5.2 Table 2	Dimensions of Rectangular Loft Tanks	Overall Width mm	-	-	-	-
12	5.2 Table 2	Dimensions of Rectangular Loft Tanks	Overall Length mm	-	-	-	-
13	5.1 Table 1	Dimensions of Cylindrical Vertical Tank	The gross capacity of the tanks shall be at least 5 percent in excess of the minimum net capacity in Liters	-	-	-	10600 (6.0 %)
14	5.1 Table 1	Dimensions of Cylindrical Vertical Tank	Weight of Tank (without lid) kg	319.0	-	Kg	323.0
15	5.1 Table 1	Dimensions of Cylindrical Vertical Tank	Wall thickness above Effective Height (Ref Cl 5.4) mm	-	-	-	TOP :- 12.30mm BOTTOM :- 12.10mm 11.80 CONFIRMED

16	5.1 Table 1	Dimensioas of Cylindrical Vertical Tank	Wall and Bottom thickness mm	-	-	-	WALL :-12.72mm BOTTOM :- 12.34mm
17	5.1 Table 1	Dimensioas of Cylindrical Vertical Tank	Overall Height Range mm	2400.0	3740.0	mm	3125.0
18	5.1 Table 1	Dimensioas of Cylindrical Vertical Tank	Overall Diameter Range mm	1900.0	2680.0	mm	2160.0
19	5.1 Table 1	Dimensioas of Cylindrical Vertical Tank	Minimum Net Capacity up to effective height in Liters	10000.0	-	ltrs	10020.0

**CH Venkatesh**  
**OIC Mechanical**  
 (Authorized Signatory)  
 Authorized on: 30 Jun, 2022 11:11 AM

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PART D. REMARKS

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**CH Venkatesh**  
**OIC Mechanical**  
(Authorized Signatory)  
Authorized on: 30 Jun, 2022 11:11 AM

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सेन्ट्रल इंस्टिट्यूट ऑफ पेट्रोसायन  
इंजीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार)  
एच.सी.एल. पोस्ट, आई.डी.ए.,  
फेस - २, चेरलापल्ली, हैदराबाद-५०० ०५१.  
दूरभाष : ०४०-२७२६३७५०, २७२६३६१५  
फैक्स : ९१-४०-२७२६४०५१  
ई-मेल : testing-hyderabad@cipet.gov.in  
hyderabad@cipet.gov.in  
वेबसाइट : www.cipet.gov.in



CENTRAL INSTITUTE OF PETROCHEMICALS  
ENGINEERING & TECHNOLOGY

(Department of Chemicals & Petrochemicals,  
Ministry of Chemicals & Fertilizers, Govt. of India)  
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Cherlapally, Hyderabad - 500 051.  
Phone : 040-27263750, 27263615  
Fax : 91-40-27264051  
E-mail : testing-hyderabad@cipet.gov.in  
hyderabad@cipet.gov.in  
Web : www.cipet.gov.in

सिपेट / हैदराबाद / पीटीसी / २०२२-२३  
CIPET/HYD/PTC/2022-23

दिनांक : २४.०६.२०२२  
Date : 24.06.2022

सेवा में  
To

M/s. Phenix Polycontainers  
N-14 Addl.MIDC Satara,  
Maharashtra-415005

विशय :- परीक्षण प्रतिवेदन - संदर्भ में ।

Sub : Issue of test report  
Ref : Your Ltr. QR Code : 100000252638

प्रिय महोदय, / Dear Sir,

उपरोक्त विशय के संदर्भ में कृपया इस पत्र के साथ परीक्षण प्रतिवेदन सं :  
2206199 दि: 24.06.2022 प्तथा प्रतिपुष्टी प्राप्त संलग्नीय है । कृपया इसे भरकर हमें  
वापस लौटा दे ।

With reference to the above cited subject, we are enclosing herewith Test Report No.2206199  
dated: 24.06.2022 and Invoice. We are also enclosing herewith feedback form. Kindly fill it  
and sent it back to us.

धन्यवाद तथा अच्छी सेवा के आश्तासन के साथ ।

Thanking you and assuring you of our best services.

आपका भवदिय, / Yours faithfully,

AUTHORISED SIGNATORY

संलग्न : बंधोक्त / Encl : As above



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# सेन्ट्रल इंस्टिट्यूट ऑफ पेट्रोसायन इंजीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

एच.सी.एल. पोस्ट, आई.डी.ए., फेस - २, चेरलापल्ली, हैदराबाद-५०० ०५१.

## CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India)

H.C.L. Post, IDA - Phase - II, Cherlapally, Hyderabad - 500 051.

Phone : 040-27263750, 27263615, Fax : 91-40-27264051

E-mail : testing-hyderabad@cipet.gov.in / hyderabad@cipet.gov.in Web : www.cipet.gov.in

### Plastics Testing Centre

### Test Certificate

No.: 0134067

Page 1 of 3

Date: 24.06.2022

Issued to: M/s. Phenix Polycontainers  
N-14 Addl MIDC Satara,  
Maharashtra-415005

Ref: Your Ltr.QR Code :100000252638

TEST REPORT AS PER: IS: 12701-1996 with latest Amdts.

REPORT NO: 2206199

#### PART A : PARTICULARS OF SAMPLE SUBMITTED

- a) Name of the Sample : Rotational Moulded Polyethylene Water Storage Tank as stated by party
- b) Grade/Variety/Type/Size/Class : 10000 litres
- c) Declared values, if any : Nil
- d) Code No. : Sample Code: B15217/2022/SS/2
- e) Batch No. and Date of Manufacture : 06.05.2022
- f) Quantity : 1 No. with lid
- g) Mode of Packing : Loose
- h) Seal : Nil
- i) Any other information : Samples received on 03.06.2022
- j) Date of initiation of testing : 03.06.2022
- k) Date of completion of testing : 22.06.2022

#### PART B : SUPPLEMENTARY INFORMATION

- a) Reference to sampling Procedure : Nil
- b) Supporting documents for the measurement taken and result derived : Nil
- c) Deviation from the test method as prescribed: in relevant work instructions, if any : Nil
- d) Statement of conformity as per the test result obtained : As per Part-C
- e) Decision Rule applicable or not : Nil





# सेन्द्रल इंस्टिट्यूट ऑफ पेट्रोसायन इंजीनियरिंग एण्ड टेक्नोलॉजी

चेरलापल्ली, हैदराबाद-५०० ०५१.

## CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY

Cherlapally, Hyderabad - 500 051.

### Test Certificate

No. 0134067

Continuation Sheet

REPORT No. 2206199  
PART - C

Page 2 of 3

### TEST RESULTS (IS: 12701-1996 with latest Amdts.)

S no.	Cl. No.	Test	Specified Requirement	Results obtained	
01.	4.0	MATERIALS			
	4.1	Material of construction of tank	Shall be Polyethylene	Polyethylene	
	4.2.1	Density at 23°C (base material) (kg/m <sup>3</sup> )	932-943 kg/m <sup>3</sup>	936.0	
	4.2.2	Melt Flow Index (g/10 min) (190 °C 0/2.16kg)	2.0-6.0 gm/10 mins.	3.20	
	4.2.3	Carbon black content	2.0 - 3.0%	2.54	
		Carbon black dispersion	The dispersion shall be satisfactory	Satisfactory	
02	5.0 & 5.1	TYPE & FEATURES	Cylindrical Vertical Tank or Rectangular Loft Tank	Cylindrical Vertical Tank	
	5.1	Dimensions: (mm)			
	5.1	Overall diameter range (mm)	1900-2680	2160	
	5.1	Overall height range (mm)	2400-3740	3125	
	5.1	Min. internal diameter of manhole / hand hole (mm)	Min. 450	476	
	5.1	Minimum wall and bottom thickness (mm)			
			(i) Wall	Min 11.5	12.72
		(ii) Bottom	Min 11.5	12.34	
	5.1	Minimum Weight of tank (without lid) (kg)	Min 319.0	323.0	
	5.1	Nominal capacity of Tank (ltrs)	10000	10000	
	5.1	Net capacity upto effective height (ltrs)	Min 10000	10020	
	5.1	Gross capacity (ltrs)	Shall be at least 5% in excess of min. net capacity 10500	10600 (6.0%)	
	Fig. 1	Position of outlet hole	50 mm min.	50	
	Fig. 1	Position of overflow hole	50 mm min.	50	
	3.	5.3	Provision of flat area	Flat area is to be provided on top of tank for worker to stand before entering the tank.	Confirmed
	4.	5.4	Minimum wall thickness (mm) side edges upto effective height		
(i) Top				Min 11.5	12.30
	(ii) Bottom	Min 11.5	12.10		
5.4	Wall Thickness above effective height (mm)	Shall be not less than 75 % of Table 1 i.e 8.63 mm	11.80	Confirmed Double layer	
5.	5.6	Single / Double layer			
		Inner layer	Being white in colour	White-confirmed	
	Outer layer	Shall be black in colour	Black-confirmed		
5.6	% Thickness of black layer with respect to total thickness	Min. 50%	52%		

## Test Certificate

No.: 0134067

Continuation Sheet

Page 3 of 3

REPORT No. 2206199  
PART - C

### TEST RESULTS (IS:12701-96 with latest Amndts.)

S.No.	Cl. No.	Test	Specified Requirement	Results obtained
06	6.0	Finish	Internal & External surface of tank shall be smooth, clean and free from other hidden internal defects, such as air bubbles, pits and metallic or other foreign material inclusions. The mould parting line and excess material near the top rim of the tank shall be cut and finished to the required level.	Satisfactory
07	7.0	Performance requirements		1.0%
	7.1	Resistance to Deformation (3 days) (%)	Shall not be greater than 2% of the original measurement	
	7.2	Resistance to impact (Height 3.0mtrs/2.5kg mass)	Shall not crack or puncture of the tank	CONFIRMED
	7.3	Top load Resistance for tanks above 1500 ltr. (filled with 98% net capacity water, 100kg load applied for 4 hrs)	After removal of load shall be inspected for deformation or crack on the surface and after 4 hours of the removal of the load flat surface shall return to normal position	CONFIRMED
	7.4	Tensile strength (N/mm <sup>2</sup> )	Shall not be less than 12 N/mm <sup>2</sup>	24.0
	7.5	Flexural modulus (N/mm <sup>2</sup> )	Shall not be less than 300 N/mm <sup>2</sup>	642.0
	7.6	Overall migration	Max. 10mg/dm <sup>2</sup> Max. 60mg/lit	2.6 mg/dm <sup>2</sup> 33.0 mg/lit
08	9.0	Man-hole, Hand-hole lids		
	9.1	Materials		
		Thickness (mm)	Min 3mm	4.74
		Visual appearance	Shall have sufficient ribs to provide adequate stiffness	Satisfactory
		Carbon black content (%)	2.0 - 3.0	2.57
		Carbon black dispersion	Dispersion of carbon black shall be satisfactory	Satisfactory
	9.2	Fitting of the lid over the top rim of the Tank	Shall fit properly with no clearance	CONFIRMED
		Locking arrangement	The lid shall also be provided with suitable locking arrangement	Provided
9.2.1	Fit securely to the manhole	No clearance in it should permit a 1.6mm diameter wire to pass through	CONFIRMED	

#### PART D : REMARKS : Nil

- NB: 1. This Test Report/Certificate is issued only for the samples submitted to CIPET  
2. The results stated above related only to the items tested  
3. The report shall not be reproduced in full/part without written approval of the laboratory.  
4. The quality of the subsequent production lot has to be ensured by the purchaser  
5. Any anomaly/discrepancy in this report should be brought to the notice of CIPET within 30 days from the date of issue

AUTHORISED SIGNATORY

.....  
PART B. SUPPLEMENTARY INFORMATION

- |  |     |
|--|-----|
| 1. Reference to sampling procedure, wherever applicable.   | Yes |
| 2. Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any. | Yes |
| 3. Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.   | No  |

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**VENKATESH CHINTA**  
**OIC Chemical**  
(Authorized Signatory)  
Authorized on: 30 Jun, 2022 11:12 AM

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## PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	5	Types and Features	Cylindrical Vertical Tank / Rectangular Loft Tank	-	-	-	Cylindrical Vertical Tank
2	4.2.3	Carbon Dispersion Test	conform to test	-	-	-	SATISFACTORY
3	4.2.3	Carbon Black Content	Cylindrical Vertical Tank / Rectangular Loft Tank	2.0	3.0	%	2.54

**VENKATESH CHINTA**  
**OIC Chemical**  
(Authorized Signatory)  
Authorized on: 30 Jun, 2022 11:12 AM

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PART D. REMARKS

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**VENKATESH CHINTA**  
**OIC Chemical**  
(Authorized Signatory)  
Authorized on: 30 Jun, 2022 11:12 AM

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सेन्ट्रल इंस्टिट्यूट ऑफ पेट्रोसायन  
इंजीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार)  
एच.सी.एल. पोस्ट, आई.डी.ए.,  
फेस - २, चेरलापल्ली, हैदराबाद-५०० ०५१.  
दूरभाष : ०४०-२७२६३७५०, २७२६३६१५  
फैक्स : ९१-४०-२७२६४०५१  
ई-मेल : testing-hyderabad@cipet.gov.in  
hyderabad@cipet.gov.in  
वेबसाइट : www.cipet.gov.in



CENTRAL INSTITUTE OF PETROCHEMICALS  
ENGINEERING & TECHNOLOGY

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hyderabad@cipet.gov.in  
Web : www.cipet.gov.in

सिपेट / हैदराबाद / पीटीसी / २०२२-२३  
CIPET/HYD/PTC/2022-23

दिनांक : २४.०६.२०२२  
Date : 24.06.2022

सेवा में  
To

M/s. Phenix Polycontainers  
N-14 Addl.MIDC Satara,  
Maharashtra-415005

विशय :- परीक्षण प्रतिवेदन - संदर्भ में ।

Sub : Issue of test report  
Ref : Your Ltr. QR Code : 100000252638

प्रिय महोदय, / Dear Sir,

उपरोक्त विशय के संदर्भ में कृपया इस पत्र के साथ परीक्षण प्रतिवेदन सं : 2206199 दि: 24.06.2022 प्तथा प्रतिपुष्टी प्राप्त संलग्नीय है । कृपया इसे भरकर हमें वापस लौटा दे ।

With reference to the above cited subject, we are enclosing herewith Test Report No.2206199 dated: 24.06.2022 and Invoice. We are also enclosing herewith feedback form. Kindly fill it and sent it back to us.

धन्यवाद तथा अच्छी सेवा के आश्तासन के साथ ।

Thanking you and assuring you of our best services.

आपका भवदिय, / Yours faithfully,

AUTHORISED SIGNATORY

संलग्न : बंधोक्त / Encl : As above



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# सेन्ट्रल इंस्टिट्यूट ऑफ पेट्रोसायन इंजीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

एच.सी.एल. पोस्ट, आई.डी.ए., फेस - २, चेरलापल्ली, हैदराबाद-५०० ०५१.

## CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY

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E-mail : testing-hyderabad@cipet.gov.in / hyderabad@cipet.gov.in Web : www.cipet.gov.in

### Plastics Testing Centre

### Test Certificate

No.: 0134067

Page 1 of 3

Date: 24.06.2022

Issued to: M/s. Phenix Polycontainers  
N-14 Addl MIDC Satara,  
Maharashtra-415005

Ref: Your Ltr.QR Code :100000252638

TEST REPORT AS PER: IS: 12701-1996 with latest Amdts.

REPORT NO: 2206199

#### PART A : PARTICULARS OF SAMPLE SUBMITTED

- a) Name of the Sample : Rotational Moulded Polyethylene Water Storage Tank as stated by party
- b) Grade/Variety/Type/Size/Class : 10000 litres
- c) Declared values, if any : Nil
- d) Code No. : Sample Code: B15217/2022/SS/2
- e) Batch No. and Date of Manufacture : 06.05.2022
- f) Quantity : 1 No. with lid
- g) Mode of Packing : Loose
- h) Seal : Nil
- i) Any other information : Samples received on 03.06.2022
- j) Date of initiation of testing : 03.06.2022
- k) Date of completion of testing : 22.06.2022

#### PART B : SUPPLEMENTARY INFORMATION

- a) Reference to sampling Procedure : Nil
- b) Supporting documents for the measurement taken and result derived : Nil
- c) Deviation from the test method as prescribed: in relevant work instructions, if any : Nil
- d) Statement of conformity as per the test result obtained : As per Part-C
- e) Decision Rule applicable or not : Nil



Test Certificate

No 0134067

Continuation Sheet

REPORT No.2206199  
PART-C

Page 2 of 3

TEST RESULTS  
(IS: 12701-1996 with latest Amdts.)

S no.	Cl. No.	Test	Specified Requirement	Results obtained		
01.	4.0	MATERIALS				
	4.1	Material of construction of tank	Shall be Polyethylene	Polyethylene		
	4.2.1	Density at 23°C (base material) (kg/m <sup>3</sup> )	932-943 kg/m <sup>3</sup>	936.0		
	4.2.2	Melt Flow Index (g/10 min) (190 °C 0/2.16kg)	2.0-6.0 gm/10 mins.	3.20		
	4.2.3	Carbon black content	2.0 - 3.0%	2.54		
		Carbon black dispersion	The dispersion shall be satisfactory	Satisfactory		
02	5.0 & 5.1	TYPE & FEATURES	Cylindrical Vertical Tank or Rectangular Loft Tank	Cylindrical Vertical Tank		
	5.1	Dimensions: (mm)				
	5.1	Overall diameter range (mm)	1900-2680	2160		
	5.1	Overall height range (mm)	2400-3740	3125		
	5.1	Min. internal diameter of manhole / hand hole (mm)	Min. 450	476		
	5.1	Minimum wall and bottom thickness (mm)	(i) Wall	Min 11.5	12.72	
			(ii) Bottom	Min 11.5	12.34	
	5.1	Minimum Weight of tank (without lid) (kg)	Min 319.0	323.0		
	5.1	Nominal capacity of Tank (ltrs)	10000	10000		
	5.1	Net capacity upto effective height (ltrs)	Min.10000	10020		
	5.1	Gross capacity (ltrs)	Shall be at least 5% in excess of min. net capacity 10500	10600 (6.0%)		
	Fig. 1	Position of outlet hole	50 mm min.	50		
	Fig.1	Position of overflow hole	50 mm min.	50		
	3.	5.3	Provision of flat area	Flat area is to be provided on top of tank for worker to stand before entering the tank.	Confirmed	
	4.	5.4	Minimum wall thickness (mm) side edges upto effective height	(i) Top	Min.11.5	12.30
				(ii) Bottom	Min 11.5	12.10
5.4	Wall Thickness above effective height (mm)	Shall be not less than 75 % of Table 1 i.e 8.63 mm	11.80	Confirmed Double layer		
5.	5.6	Single / Double layer				
		Inner layer	Being white in colour	White-confirmed		
		Outer layer	Shall be black in colour	Black-confirmed		
5.6	% Thickness of black layer with respect to total thickness	Min. 50%	52%			



### Test Certificate

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Continuation Sheet

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 PART - C

#### TEST RESULTS (IS:12701-96 with latest Amndts.)

S.No.	Cl. No.	Test	Specified Requirement	Results obtained
06	6.0	Finish	Internal & External surface of tank shall be smooth, clean and free from other hidden internal defects, such as air bubbles, pits and metallic or other foreign material inclusions. The mould parting line and excess material near the top rim of the tank shall be cut and finished to the required level.	Satisfactory
07	7.0	Performance requirements		1.0%
	7.1	Resistance to Deformation (3 days) (%)	Shall not be greater than 2% of the original measurement	
	7.2	Resistance to impact (Height 3.0mtrs/2.5kg mass)	Shall not crack or puncture of the tank	CONFIRMED
	7.3	Top load Resistance for tanks above 1500 ltr. (filled with 98% net capacity water, 100kg load applied for 4 hrs)	After removal of load shall be inspected for deformation or crack on the surface and after 4 hours of the removal of the load flat surface shall return to normal position	CONFIRMED
	7.4	Tensile strength (N/mm <sup>2</sup> )	Shall not be less than 12 N/mm <sup>2</sup>	24.0
	7.5	Flexural modulus (N/mm <sup>2</sup> )	Shall not be less than 300 N/mm <sup>2</sup>	642.0
	7.6	Overall migration	Max. 10mg/dm <sup>2</sup> Max. 60mg/lit	2.6 mg/dm <sup>2</sup> 33.0 mg/lit
08	9.0	Man-hole, Hand-hole lids		
	9.1	Materials		4.74
		Thickness (mm)	Min 3mm	
		Visual appearance	Shall have sufficient ribs to provide adequate stiffness	Satisfactory
		Carbon black content (%)	2.0 - 3.0	2.57
		Carbon black dispersion	Dispersion of carbon black shall be satisfactory	Satisfactory
	9.2	Fitting of the lid over the top rim of the Tank	Shall fit properly with no clearance	CONFIRMED
		Locking arrangement	The lid shall also be provided with suitable locking arrangement	Provided
9.2.1	Fit securely to the manhole	No clearance in it should permit a 1.6mm diameter wire to pass through	CONFIRMED	

PART D : REMARKS : Nil

- NB: 1. This Test Report/Certificate is issued only for the samples submitted to CIPET  
 2. The results stated above related only to the items tested  
 3. The report shall not be reproduced in full/part without written approval of the laboratory.  
 4. The quality of the subsequent production lot has to be ensured by the purchaser  
 5. Any anomaly/discrepancy in this report should be brought to the notice of CIPET within 30 days from the date of issue

AUTHORISED SIGNATORY