



# शिवा प्रिंट्स प्राइवेट लिमिटेड

(उच्च गुणवत्ता के सभी प्रकार के पाइप के निर्माता)

(An ISO 9001:2015, 14001:2015 & 4427 Part 1 & 2 : 2019 Certified Company)



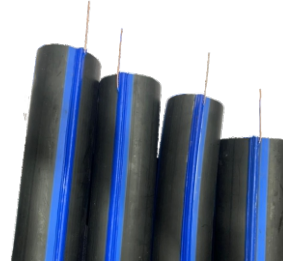
Coupled Sprinkler  
Systems

IS: 14151 (Pt-2)



HDPE Pipes

IS 4984:2016



Copper insulated  
HDPE Pipes

IS 4984:2016



MDPE Gas Pipes

IS 14885 : 2001



Works & Off. : 56-57B, Tupudana Industrial Area, Hatia, Ranchi - 834003

Branch Off. : K.P. Road (Purani Godam), Near SBI Bank, Gaya - 823001

E-mail : [spplplant@yahoo.com](mailto:spplplant@yahoo.com), [spplranchi@gmail.com](mailto:spplranchi@gmail.com)

Contact No. : 95460 48999

## HIGH QUALITY QUICK COUPLED POLYETHYLENE PIPES FOR SPRINKLER SYSTEM AS PER IS: 14151 (PART II) 2008.

### Product Range

Shiva sprinkler pipes are available in 50 mm to 140 mm diameter, and pressure rating class 1 to 3 with a complete range of fittings.

### Sprinkler Pipes Salient Features

Immune to weather conditions | Easy to carry | Flexible | Robust in quality  
Low in cost when compared to Aluminum Sprinkler System | Abrasion and wear resistant  
Non-corrosive | Able to withstand high pressure | Resistant to chemical attacks



### DIMENSION CHART OF SPRINKLER PIPES AS PER IS:14151 (PART - II) 2008

Sr. No.	OD(mm)		Class-1 (0.25 Mpa) Thickness(mm)		Class-2 (0.32 Mpa) Thickness(mm)		Class-3 (0.4 Mpa) Thickness(mm)	
	Min	Max	Min	Max	Min	Max	Min	Max
	1	50.00	50.50	--	--	--	--	2.00
2	63.00	63.60	--	--	2.00	2.40	2.50	2.90
3	75.00	75.70	2.00	2.40	2.50	2.90	3.00	3.40
4	90.00	90.80	2.20	2.60	2.90	3.40	3.50	4.10
5	110.00	111.00	2.70	3.20	3.40	3.90	4.20	4.80
6	125.00	126.20	3.10	3.60	3.80	4.50	4.80	5.50
7	140.00	141.30	3.50	4.10	4.30	5.00	5.40	6.10
8	160.00	161.50	3.90	4.50	4.90	5.60	6.20	7.00
9	180.00	181.70	4.40	5.00	5.50	6.30	6.90	7.80
10	200.00	201.80	4.90	5.60	6.10	7.00	7.70	8.70

### COPPER INSULATED & PLAIN HDPE PIPES FOR POTABLE WATER SUPPLY AS PER IS 4984:2016

### Product Range

Pipes - 20 to 315 mm in PE 63, PE 80 and PE100 grade PN 2.5 to PN 16 as per IS 4984:2016

### HDPE Pipes Salient Features

High reliability and proven service performance | Resistance to low temperature  
High impact resistance | Abrasion resistance | Excellent flow characteristics  
Excellent chemical and corrosion resistance | Long service life | Great flexibility, light weight,  
easy and fast installation | Excellent water hammer resistance | Ideal in shifting soil condition  
and earthquake prone areas.



## DIMENSION CHART OF PE (HDPE) PIPES FOR WATER SUPPLY AS PER IS-4984 : 2016

Nominal Outer Dia	Outer Dia		SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6	
			PE-63	PN-2	PN-2.5	PN-3.2	PN-4	PN-5	PN-6	PN-8	--	--	--
dn	Min	Max	Ovality (Max.)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16.00	16.00	16.30	1.20	-	-	-	-	-	-	-	-	-	-
20.00	20.00	20.30	1.20	-	-	-	-	-	-	-	-	-	-
25.00	25.00	25.30	1.20	-	-	-	-	-	-	-	-	-	-
32.00	32.00	32.30	1.30	-	-	-	-	-	-	-	-	-	-
40.00	40.00	40.40	1.40	-	-	-	-	-	-	-	-	-	-
50.00	50.00	50.40	1.40	-	-	-	-	-	-	-	-	-	-
63.00	63.00	63.40	1.50	-	-	-	-	-	-	-	-	-	-
75.00	75.00	75.50	1.60	1.90	2.20	2.30	2.60	2.90	3.30	3.60	4.10	4.40	4.90
90.00	90.00	90.60	1.80	2.20	2.50	2.80	3.20	3.50	4.00	4.30	4.80	5.30	5.90
110.00	110.00	110.70	2.20	2.70	3.10	3.40	3.80	4.30	4.80	5.30	5.90	6.60	7.30
125.00	125.00	125.80	2.50	3.10	3.50	3.80	4.30	4.80	5.40	6.00	6.70	7.40	8.20
140.00	140.00	140.90	2.80	3.50	4.00	4.30	4.80	5.40	6.00	6.70	7.50	8.30	9.20
160.00	160.00	161.00	3.20	3.90	4.40	4.90	5.50	6.20	6.90	7.70	8.60	9.50	10.60
180.00	180.00	181.10	3.60	4.40	4.90	5.50	6.20	7.00	7.80	8.60	9.60	10.60	11.80
200.00	200.00	201.20	4.00	4.90	5.50	6.10	6.80	7.70	8.60	9.60	10.70	11.80	13.10
225.00	225.00	226.40	4.50	5.50	6.20	6.90	7.70	8.70	9.70	10.80	12.00	13.30	14.70
250.00	250.00	251.50	5.00	6.10	6.80	7.60	8.50	9.50	10.60	11.80	13.10	14.50	16.00
280.00	280.00	281.70	5.80	6.90	7.70	8.50	9.50	10.60	11.80	13.10	14.50	16.00	17.60
315.00	315.00	316.90	6.60	7.70	8.60	9.60	10.70	12.00	13.50	15.00	16.60	18.30	20.10
355.00	355.00	357.20	7.50	8.70	9.70	10.80	12.00	13.50	15.20	16.90	18.70	20.90	23.10
400.00	400.00	402.40	8.40	9.80	10.90	12.20	13.50	15.40	17.00	19.10	21.10	23.60	26.10
450.00	450.00	452.70	9.30	11.00	12.20	13.70	15.20	17.30	19.10	21.50	23.80	26.50	29.30
500.00	500.00	503.00	10.20	12.20	13.50	15.20	16.80	19.30	21.30	23.90	26.40	29.50	32.60
560.00	560.00	563.40	11.10	13.70	15.20	17.00	18.80	21.60	23.90	26.70	29.50	33.00	36.40
630.00	630.00	633.80	12.00	15.40	17.00	19.10	21.10	24.30	26.80	30.00	33.10	37.10	40.90

## POLYETHYLENE PIPES FOR THE SUPPLY OF GASEOUS FUELS AS PER IS - 14885 : 2001

### Product Range

MDPE pipes are manufactured in the range of 20mm to 250 mm (Outer Diameter) in SDR 17.6 & SDR-11 ratings.

COLOUR OF PIPE : PE-80 (YELLOW) & PE-100 (ORANGE)

### MDPE Gas Pipes Salient Features

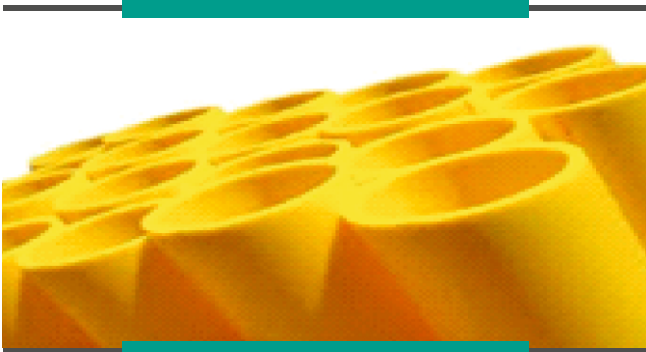
Excellent toughness/ductility | High resistance to slow crack propagation  
 Excellent Creep Properties | Resistance to rapid crack propagation | Excellent ESCR.  
 Extreme smooth interior surface | Balance rigidity and toughness | Frost resistance  
 Very low permeation to gases | Highly reliable in most soil types  
 No deposition, encrustation, and reaching out | Easy to transport, handle, and lay | Longer life



## DIMENSION CHART OF MDPE GAS PIPES AS PER IS - 14885 : 2001

OUTER DIA	SDR 17.6		SDR 11	
	WALL THICKNESS		WALL THICKNESS	
mm	Min.	Max.	Min.	Max.
20	2.30	2.70	3.00	3.40
25	2.30	2.70	3.00	3.40
32	2.30	2.70	3.00	3.40
40	2.30	2.70	3.70	4.20
50	2.90	3.30	4.60	5.20
63	3.60	4.10	5.80	6.50
75	4.30	4.90	6.80	7.60
90	5.20	5.90	8.20	9.20
110	6.30	7.10	10.00	11.20
125	7.10	8.00	11.40	12.70
140	8.00	9.00	12.70	14.10
160	9.10	10.20	14.60	16.20
180	10.30	11.50	16.40	18.20
200	11.40	12.70	18.20	20.20
225	12.80	14.20	20.50	22.70
250	14.20	15.80	22.70	25.10

# PRODUCTS



## SHIVA PRINTS PVT. LTD.

Works & Off. : 56-57B, Tupudana Industrial Area, Hatia, Ranchi - 834003

Branch Off. : K.P. Road (Purani Godam), Near SBI Bank, Gaya - 823001

Phone (H.O.) : 95460 48999

E-mail : spplant@yahoo.com, spplranchi@gmail.com

**For any other  
communication**

**Address:** Jamshedpur Branch Office-F/10-A,  
Namdih Road, P.O. Burmamines,  
Jamshedpur, EAST  
SINGHBHUM,JHARKHAND,831007

**Phone:** 0657-2345481, 2345498

**Fax:**

**E-Mail:** jdbo@bis.gov.in

**Web:** www.bis.org.in, www.manakonline.in

## **BUREAU OF INDIAN STANDARDS**

### **Attachment to Licence No. CM/L- 5800028207**

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
5800028207	Shiva Prints Pvt. Ltd. -Shiva Prints Pvt. Ltd. , 56-57 B, Tupudana Industrial Area Hatia , Ranchi : 834003	HIGH DENSITY POLYETHYLENE PIPES FOR POTABLE WATER SUPPLIES	IS 4984 : 2016

### **Endorsement No. 6 Dated 23-Jun-2021**

Whereas, the licence was valid upto Thirty First July Two Thousand Twenty One.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 31-JUL-2021 has been extended from Thirty First July Two Thousand Twenty One to Thirty First July Two Thousand Twenty Two

Other terms and conditions of licence remain same.

Branch Head (Jamshedpur Branch Office)

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002. ,9 Bahadur Shah Zafar Marg,  
,DELHI,110002

**Contact No:** +91 11 23230131,  
23233375, 23239402

**Fax:** +91 11 23234062, 232

**Email:** info@bis.gov.in



भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

जमशेदपुर शाखा कार्यालय

बंगला नं. एफ/10ए, नामदीह रोड, डाकघर-बर्माइन्स, जमशेदपुर - 831007

**Jamshedpur Branch Office :**

Banglow No.- F/10A, Namdih Road, Post Office-Burmamines,  
Jamshedpur - 831 007, Jharkhand

दूरभाष : 0657 - { 2345498  
Phone : 2345481 e-mail : jdbo@bis.gov.in

GST No. : 20AAATB0431G1ZP, TAN No.: RCHB02241B

[Our Ref : JDBO/CM/L 5800031608

14/12/2020

Subject: Grant of BIS Certification Marks Licence No 5800031608 as per IS  
14151 ( PART 2 ) : 2008

M/S Shiva Prints Pvt. Ltd.  
56-57 B, Tupudana Industrial Area  
Hatia,  
RANCHI  
JHARKHAND- 834003

Dear Madams(s)/Sir,

With reference to your application, we are pleased to inform you that the Certification Marks Licence has been granted to you to use the Standard Mark in respect of the followings:

Product: - Irrigation Equipment - Sprinkler Pipes : Part 2 Quick Coupled Polyethylene Pipes and fittings as per 14151  
PART 2: 2008

Grade/Class/Type/Variety
40 mm to 140 mm class 1
40 mm to 140 mm class 2
40 mm to 140 mm class 3

1. The licence is granted on the explicit condition that you will mark entire/substantial production which conforms To the Indian Standards.
  2. The number assigned to this licence is **CM/L- 5800031608** which has been made operative from **2020-07-07** and is valid up to **2021-07-06**. The licence number should invariably be referred to in your future correspondence.
- According to sub-regulation (1) & (3) of Paragraph 5 of scheme I of Schedule II under Bureau of Indian Standards (Conformity of Assessment) Regulation, 2018, the annual licence fee of Rs. 1000.00 and the marking fee for use of standard mark as per Annexure-I of Scheme I of BIS (Conformity assessment) Regulation 2018 is payable by you with effect from **2020-07-07** for the period of validity of the licence in advance.
3. Minimum marking fee stipulated in Annexure -I of scheme I of BIS (Conformity Assessment) Regulation 2018 is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. Our **Receipt No. 0058PC2019000968** dated **2020-02-29** for the licence fee and the minimum marking fee for the first operative period is already issued.
  4. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher shall be payable by you at the time of renewal.
  5. With a view to streamlining the reporting of quantity marked, calculation and collection of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal, and on the production marked during twelve months comprising the last three months of the previous operative year and the first nine months of the current operative year, at the time of the second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.

मुख्यालय : मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110 002

Headquarter : Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi - 110 002

Website : <http://www.bis.gov.in>, Phone : 011-23230131-41, PAN No.: AAATB0431G

6. The Scheme of Testing and Inspection submitted by you and agreed by BIS or the Scheme of Testing and Inspection as specified by BIS will have to be implemented by your organization strictly and completely. This supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us as and when these take place.

7. We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product. Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions maintained. Preferred dimensions be used as far as possible.

8. On commencement of marking of your product for which you are licensed, you may advertise your product with Standard Mark in various media only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the Standard Mark on your letterheads, publicity literatures etc. will be destroyed/obliterated.

9. This licence is granted for your factory situated at, 56-57B, Tupudana Industrial Area Hatia, RANCHI, JHARKHAND, - 834003. Privileges under the licence shall not be exercised by any other firm company/factory etc. This licence is not transferable in the event of shifting the manufacturing and testing equipment from the licensed premises to some other place, use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by us in respect of manufacturing and testing facilities available there and the address of the new premises is endorsed in the licence.

10. It may be noted that this licence is granted subject to the condition that if samples drawn on 18/06/2020 by BIS during the verification visit before grant of licence, fail to conform to the requirement of relevant (in any requirements), the licence shall be put under Suspension, and in case fresh sample after corrective action is not offered within one month of fresh sample fails to conform to the requirement of relevant Indian Standard, in any requirement, the licence shall be processed for cancellation.

Thanking You,



S D Dayanand

SCIENTIST-E & HEAD

Encl: As above



भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

जमशेदपुर शाखा कार्यालय

बंगला नं. एफ/10ए, नामदीह रोड, डाकघर-बर्माइन्स, जमशेदपुर - 831007

**Jamshedpur Branch Office :**

Banglow No.- F/10A, Namdih Road, Post Office-Burmamines,  
Jamshedpur - 831 007, Jharkhand

दूरभाष : 0657 - { 2345498  
Phone : 2345481 e-mail : jdbo@bis.gov.in  
GST No. : 20AAATB0431G1ZP, TAN No.: RCHB02241B

Our Ref :JDBO/CM/L 5800035810

Dated: 21/01/2021

Subject: Grant of BIS Certification Marks Licence No 5800035810 according to IS 14885:2001.

M/s: Shiva Prints Pvt. Ltd.  
56-57 B, Tupudana Industrial Area Hatia, Ranchi,  
Jharkhand - 834003, INDIA.

Dear Madams(s)/Sir,

With reference to your application, we are pleased to inform you that the Certification Marks Licence has been granted to you to use the Standard Mark in respect of the followings:

Product: Polyethylene Pipes for the Supply of Gaseous Fuels according to IS 14885 :2001 .

Grade/Class/Type/Variety
PE 100, SDR 17.6, DN 16 to 250
PE 100, SDR 11, DN 16 to 250
PE 80, SDR 17.6, DN 16 to 250
PE 80, SDR 11, DN 16 to 250

1. The licence is granted on the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards.
2. The number assigned to this licence is CM/L- 5800035810 which has been made operative from 2021-01-15 and is valid upto 2022-01-14. The licence number should invariably be referred to in your future correspondence.

According to sub-regulation (1) &(3) of Paragraph 5 of scheme I of Schedule II under Bureau of Indian Standards (Conformity of Assessment) Regulation, 2018, the annual licence fee of Rs. 1000.00 and the marking fee for use of standards mark as per Annexure-I of Scheme I of BIS(Conformity assessment) Regulation 2018 is payable by you with effect from 2020-08-04 for the period of validity of the licence in advance.

3. Minimum marking fee stipulated in Annexure -I of scheme I of BIS (Conformity Assessment) Regulation 2018 is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. **Our Receipt No. 0058PC2020000210**, dated 2021-01-15 for the licence fee and the minimum marking fee for the first operative period is already issued.

मुख्यालय : मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110 002

Headquarter : Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi - 110 002

Website : http/www.bis.gov.in, Phone : 011-23230131-41, PAN No.: AAATB0431G



4. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher shall be payable by you at the time of renewal.

5. With a view to streamlining the reporting of quantity marked, calculation and collection of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal, and on the production marked during twelve months comprising the last three months of the previous operative year and the first nine months of the current operative year, at the time of the second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.

6. The Scheme of Inspection and Testing submitted by you and agreed by BIS or the Scheme of Inspection and Testing as specified by BIS will have to be implemented by your organization strictly and completely. This supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us as and when these take place.

7. We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product. Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions maintained. Preferred dimensions be used as far as possible.

8. On commencement of marking of your product for which you are licensed, you may advertise your product with Standard Mark in various media only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the Standard Mark on your letterheads, publicity literatures etc. will be destroyed/obliterated.

9. This licence is granted for your factory situated at: **56-57 B, Tupudana Industrial Area Hatia, Ranchi, Jharkhand 834003 India**. Privileges under the licence shall not be exercised by any other firm company/factory etc. This licence is not transferable in the event of shifting the manufacturing and testing equipment from the licensed premises to some other place, use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by us in respect of manufacturing and testing facilities available there and the address of the new premises is endorsed in the licence.

Thanking You,

Your Sincerely,



(S. D. Dayanand)  
SCIENTIST -E & HEAD

**एस.डी. दयानन्द/S.D. DAYANAND**  
वैज्ञानिक-ई एवं प्रमुख/Scientist-E & Head  
भारतीय मानक ब्यूरो/BUREAU OF INDIAN STANDARDS  
एफ/10-ए, नामडीह रोड/F/10-A, NAMDIH ROAD,  
बर्माईन्स, जमशेदपुर-831007  
BURMAMINES, JAMSHEDPUR-831007



# Certificate of Registration

*This is to certify that  
The Environmental Management System of*

**SHIVA PRINTS PRIVATE LIMITED**

**56-57 B, Tupudana Industrial Area, Hatia, Ranchi-3**

*has been assessed and found to be in accordance with the  
requirements of the management system standard*

**ISO 14001:2015**

for the following scope :

**Manufacturer of A.C.S.R., A.A.A. Conductors & H.D.P.E. Pipes & Products**

CERTIFICATE No. : 19ZACI0138E

ISSUED DATE : 25/01/2019  
EXPIRY DATE : 24/01/2022

1ST SURVEILLANCE : 24/12/2019  
2ND SURVEILLANCE : 24/12/2020

Managing Director

UAF IS THE FULL MEMBER OF IAF



Accredited By United Accreditation Foundation (UAF)  
3510, Colmar, Norfolk, Va 23509, United State of America (USA)

For BMG Conformity Assessment Services Pvt. Ltd.  
C-338, 2nd Floor, Sector-10, Noida-201301, G.B. Nagar, (U.P.)

This Certificate is intellectual Property of BMG and can be maintained through surveillance and renewal audits.  
Certificate should be returned to BMG in case of non compliance of certification procedure.  
Authenticity & Status of this certificate can be verified at <https://uafaccreditation.org> or [www.bmgcertification.com](http://www.bmgcertification.com)

# Certificate of Registration



*The Governing Board of  
Progressive International Certifications Limited  
hereby grant to:*

**SHIVA PRINTS PVT. LTD.**

Address to which this Certificate refers:

**56 - 57B, TUPUDANA INDUSTRIAL AREA,  
HATIA, RANCHI - 834003, JHARKHAND, INDIA.**

(Here in after called the Registered firm) the right to be listed in the Directory of Registered firm in respect of the services listed below. These services shall be offered by the Registered firm at or from only the address given above in accordance and compliance with

**Plastics piping systems for water supply  
and for drainage and sewerage under pressure  
— Polyethylene (PE) — Part 1: General**

**ISO 4427-1:2019**

Approved Scope to which this Certificate refers

**MANUFACTURING OF MDPE & HDPE PIPES.**

Registration No.: PICL/PWSDP/0321/4677  
Certificate Issue Date: 02.08.2020  
1st Surveillance: 08.2021

Certificate Expire Date: 01.08.2023  
2nd Surveillance: 08.2022

Head of Certificate



This Certificate of Registration is granted subject to the Regulations approved by the Board.  
PROGRESSIVE INTERNATIONAL CERTIFICATIONS INC.  
England : Office 4, 219, Kensington High Street, Kensington, London, W8 6BD, England.  
India : Prakruti, Plot No. 03, Sector 21 Kharghar, Navi Mumbai - 410210, India.  
Ph. +91 8080091139, E-mail.: [info@progressiveltd.com](mailto:info@progressiveltd.com), Website: [www.progressiveltd.com](http://www.progressiveltd.com)  
For current validity of this certificate. Please visit our website

USE OF ACCREDITATION MARK INDICATES ACCREDITATION IN RESPECT OF THE ACTIVITIES COVERED BY  
ACCREDITATION INSTITUTE ASSESSMENT BODY (EUROPE) CERTIFICATION NUMBER 005

# Certificate of Registration



*The Governing Board of  
Progressive International Certifications Limited  
hereby grant to:*

**SHIVA PRINTS PVT. LTD.**

Address to which this Certificate refers:

**56 - 57B, TUPUDANA INDUSTRIAL AREA,  
HATIA, RANCHI - 834003, JHARKHAND, INDIA.**

(Here in after called the Registered firm) the right to be listed in the Directory of Registered firm in respect of the services listed below. These services shall be offered by the Registered firm at or from only the address given above in accordance and compliance with

**Plastics piping systems for water supply,  
and for drainage and sewerage under pressure  
— Polyethylene (PE) — Part 2: Pipes**

**ISO 4427-2:2019**

Approved Scope to which this Certificate refers

**MANUFACTURING OF MDPE & HDPE PIPES.**

Registration No.: PICL/PWSDP/0321/6443  
Certificate Issue Date: 02.08.2020  
1st Surveillance: 08.2021

Certificate Expire Date: 01.08.2023  
2nd Surveillance: 08.2022

Head of Certificate



This Certificate of Registration is granted subject to the Regulations approved by the Board.  
PROGRESSIVE INTERNATIONAL CERTIFICATIONS INC.  
England : Office 4, 219, Kensington High Street, Kensington, London, W8 6BD, England.  
India : Prakruti, Plot No. 03, Sector 21 Kharghar, Navi Mumbai - 410210, India.  
Ph. +91 8080091139, E-mail.: [info@progressiveltd.com](mailto:info@progressiveltd.com), Website: [www.progressiveltd.com](http://www.progressiveltd.com)  
For current validity of this certificate. Please visit our website

USE OF ACCREDITATION MARK INDICATES ACCREDITATION IN RESPECT OF THE ACTIVITIES COVERED BY  
ACCREDITATION INSTITUTE ASSESMENT BODY (EUROPE) CERTIFICATION NUMBER 005



# Certificate of Registration

## SHIVA PRINTS PRIVATE LIMITED

56-57 B, TUPUDANA INDUSTRIAL AREA, HATIA,  
RANCHI-3, INDIA

has been assessed and certified by Grone Services Pvt. Ltd.  
as meeting the requirements of

### ISO 9001: 2015

### Quality Management System

For the following activities

**MANUFACTURER OF A.C.S.R., A.A.A. CONDUCTORS &  
H.D.P.E. PIPES & PRODUCTS**

Date of Registration	: 06 July 2019
1st Surveillance Due	: 05 July 2020
2nd Surveillance Due	: 05 July 2021
Certificate Expiry (subject to the company maintaining its system to the required standard)	: 05 July 2022

Certificate No:- 1907QMS033406

To Verify this certificate please visit at [www.gronecert.com/www.uafaccreditation.org](http://www.gronecert.com/www.uafaccreditation.org)

UAF is a Full Member of International Accreditation Forum(IAF)



*D. Agarwal*  
Authorised Signatory

## Grone Services Private Limited

Validity of this Certificate is successful Annual Surveillance audits to be done. This Certificate of Registration remains the Property of

Grone Services Private Limited and shall be returned immediately upon request

Grone Services Private Limited is accredited by United accreditation Foundation Inc, 3510, Colmar, Norfolk VA 23509, USA

Off. D-729, Bindapur, Uttam Nagar, Delhi-110059, India

Email:- [gronecert@gmail.com](mailto:gronecert@gmail.com) Website: [www.gronecert.com](http://www.gronecert.com)



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## सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी

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

सिपेट : प्लास्टिक प्रौद्योगिकी संस्थान( आई.पी.टी)

बी / 25, सी.एन.आई. कॉम्प्लेक्स, पटिया, भुवनेश्वर- 751024

**CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY**

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

**CIPET : Institute of Plastics Technology (I.P.T)**

B/25, C.N.I. Complex, Patia, Bhubaneswar-751 024

मुख्यालय : गिण्डी, चेन्नई - 600 032

Head Office : Guindy, Chennai - 600 032



फोन / Phone : 0674-2743462 / 767, 2744607

फैक्स / Fax : 0674-2743863

ई-मेल / E-mail : cipetbbsr@gmail.com

वेबसाइट / Website : www.cipet.gov.in

कोरियर / स्पीड पोस्ट / बाय हेन्ड

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सिपेट / भुवनेश्वर / परीक्षण / 2020 -21/

CIPET/BBS/TEST/2020-21/ 4409

दिनांक : 25.02.2021

Date : 25.02.2021

सेवा में/ To,

M/s. Shiva Prints Private Limited

56-57B, Tupudana Industrial

Hatia, Ranchi, Jharkhand - 834003

विषय: परीक्षण रिपोर्ट - संदर्भ में

Sub: Testing of Samples-Reg.

Ref: Your letter No. CIPET/CSTS-RNC/TESTING/2020-21/733 & 734 dt. 09.01.2021

प्रिय महोदय

Dear Sir,

उपरोक्त विषय के सन्दर्भ में कृपया इस पत्र के साथ परीक्षण रिपोर्ट क्रमांक: 26212(A-B) दिनांक: 25.02.2021

With reference to above cited subject, we are enclosing herewith the Test report No.26212 (A-B) Dated 25.02.2021

धन्यवाद तथा अच्छी सेवा के आश्वासन के साथ।

Thanking you and assuring our best services at all times.

आपका भवदीय / Your Sincerely,

अधिकृत हस्ताक्षरकर्ता / **Authorised Signatory**

संलग्न: उपरोक्तानुसार / Encl: as above

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बदी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चंद्रपुर, चेन्नई, देहरादून, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्ची, लखनऊ, मदुरै, मुरथल, मेसूरु, रायपुर, राँची, वलसाड, कोरबा एवं विजयवाडा

Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Guwahat Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Lucknow, Madurai, Murthal, Mysuru, Raipur, Ranchi, Valsad, Korba & Vijayawada



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# सेन्ट्रल इस्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी

रसायन एवं पेट्रो रसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार

सिपेट : प्लास्टिक प्रौद्योगिक संस्थान ( आई.पी.टी )

बी / 25, सि.एन.आई. काम्पलेक्स, पटिया, किट पी.ओ., भुवनेश्वर- 751024

**CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY**

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

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Ph : 2743462 / 767, Fax : 91-0674-2743863, E-mail : cipetbbsr@gmail.com, Website : www.cipet.gov.in



## TEST CERTIFICATE

CIPET/BBS/TEST/2020-21/

ULR-TC574821000005368P

Page No.1 of 3

Date: 25.02.2021

Issued to : M/s. Shiva Prints Private Limited  
56-57B, Tupudana Industrial Area  
Hatia, Ranchi, Jharkhand

Ref.No. : Your letter No. CIPET/CSTS-RNC/TESTING/2020-21/733 & 734 dt. 09.01.2021  
TEST REPORT AS PER IS : 4984-2016 with latest Amdt.  
REPORT NO : 26212(A)

### PART-A: PARTICULARS OF SAMPLE SUBMITTED

- |                                       |   |
|---------------------------------------|---|
| a) Nature of Sample                   | : PE pipe as stated by the Party.                         |
| b) Grade/Variety/ Type/Size/Class etc | : PE 100 PN 10 DN 110 SDR 13.6 as stated by the party.    |
| c) Brand name, if any                 | : Nil   |
| d) Declared values, if any            | : Nil   |
| e) Code No.                           | : Nil   |
| f) Batch No. and date of Manufacture  | : nil   |
| g) Quantity                           | : 1mtr x 12 pcs plain pipe + 1mtr x 6 pcs butt fused pipe |
| h) Mode of Packing                    | : Woven   |
| i) Date of receipt                    | : 11.01.2021  |
| j) Seal                               | : Not Intact  |
| k) I.O's signature on the sample      | : Unsigned  |
| l) Test duration                      | : 12.01.2021-25.02.2021                                   |
| m) Any other information              | : Nil   |

### PART -B: SUPPLEMENTARY INFORMATIONS

- |  |                          |
|--|--------------------------|
| a) Reference to sampling procedure   | : Submitted by the party |
| b) Supporting documents for the measurements taken and results derived   | : As given in part-C     |
| c) Deviation, addition or exclusion from the test methods as prescribed in relevant ISS / Work instructions , if any | : No.                    |
| d) Description of condition or unambiguous Identification of items tested instructions , if any                      | : No.                    |

*(Signature)*



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# सेन्ट्रल इस्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी

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

सिपेट : प्लास्टिक प्रौद्योगिक संस्थान( आई.पी.टी)

बी /25, सि.एन.आई. काम्पलेक्स, पटिया, किट पी.ओ, भुवनेश्वर- 751024

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TC-5748

## TEST CERTIFICATE

ULR-TC574821000005368P

Page no.2 of 3


Date:25.02.2021

REPORT NO:26212(A)

AS PER IS: : 4984-2016 with latest Amdt

PART- C: TEST RESULTS

Sl. No.	Cl. No	Tests	Test Method	Unit	Specified Requirement	Results Obtained
1	8	<b>PERFORMANCE REQUIREMENTS</b>				
1.1	8.1	Hydraulic characteristics	IS 4984-2016 (Annex.-E)			
1.1.1	8.1.1	Internal Pressure Creep Rupture Test of Pipe				
	i)	100 hours at 27 <sup>0</sup> & 10.7 Mpa induced stress		--	Shall show no signs of localized swelling , leakage or weeping & shall not burst during the Prescribed test period.	Confirm
	iii)	165 hours at 80 <sup>0</sup> & 5.4 Mpa induced stress		--	--do--	Confirm
	iv)	1000 hours at 80 <sup>0</sup> & 5.0 Mpa induced stress	---	--do--	Confirm	
1.1.2	8.1.2	Internal Pressure Creep Rupture Test of Pipe Joints	IS:4984-2016			
		48 hours at 80 <sup>0</sup> C & 5.7 Mpa induced stress		---	The pipe joints under test Shall show no signs of localized swelling , leakage or weeping & shall not burst during the Prescribed test period.	Confirm
1.2	8.6	Overall Migration	IS:9845	mg/dm <sup>2</sup> mg/l	Max. 10 Max. 60	1.88 19.03

  
Rohit Singh Baghel  
AUTHORISED SIGNATORY

  
R.K.Sahoo  
AUTHORISED SIGNATORY





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## सेन्ट्रल इस्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी

रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार

सिपेट : प्लास्टिक प्रौद्योगिक संस्थान( आई.पी.टी)

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### TEST CERTIFICATE

ULR-TC574821000005368P

Page no.3 of 3

Date:25.02.2021

REPORT NO: 26212(A)

AS PER IS : : 4984-2016 with latest Amdt

#### PART- C: TEST RESULTS

Sl. No.	Cl. No	Tests	Test Method	Unit	Specified Requirement	Results Obtained
1.3	8.8	Tensile Strength for Butt-fusion	IS :4984-2016 (Annex.-G)	---	Shall show ductile failure	Confirm
	8.10	Slow Crack Growth Rate	IS :4984-2016 (Annex.-E)			
		500 hrs. at 80±1°C & 0.92 Mpa Internal Test Pressure		---	Shall show no signs of localized swelling , leakage or weeping & shall not burst during the Prescribed test period.	Confirm

#### PART- D : REMARKS:NIL

- NB:
1. This Test Report / Certificate is issued only for the samples submitted to CIPET.
  2. The results stated above relate only to the items tested.
  3. The quality of the subsequent production lot has to be ensured by the purchaser
  4. This Test Certificate shall not be reproduced except in full without the written approval of the Laboratory.
  5. Details of test sub- contracted: Nil

End of the Report

  
Rohit Singh Baghel

AUTHORISED SIGNATORY

  
P.K.Sahoo

AUTHORISED SIGNATORY



## TEST CERTIFICATE

ULR-TC574821000005368P

Page No.1 of 3

Date: 25.02.2021

CIPET/BBS/TEST/2020-21/

Issued to : M/s. Shiva Prints Private Limited  
56-57B, Tupudana Industrial Area  
Hatia, Ranchi, Jharkhand

Ref.No. : Your letter No. CIPET/CSTS-RNC/TESTING/2020-21/733 & 734 dt. 09.01.2021  
TEST REPORT AS PER IS : 4984-2016 with latest Amdt.  
REPORT NO : 26212(B)

### PART-A: PARTICULARS OF SAMPLE SUBMITTED

- |                                       |   |
|---------------------------------------|---|
| a) Nature of Sample                   | : PE pipe as stated by the Party.                         |
| b) Grade/Variety/ Type/Size/Class etc | : PE 100 PN 8 DN 110 SDR 17 as stated by the party.       |
| c) Brand name, if any                 | : Nil   |
| d) Declared values, if any            | : Nil   |
| e) Code No.                           | : Nil   |
| f) Batch No. and date of Manufacture  | : nil   |
| g) Quantity                           | : 1mtr x 12 pcs plain pipe + 1mtr x 6 pcs butt fused pipe |
| h) Mode of Packing                    | : Woven   |
| i) Date of receipt                    | : 11.01.2021  |
| j) Seal                               | : Not Intact  |
| k) I.O's signature on the sample      | : Unsigned  |
| l) Test duration                      | : 12.01.2021-25.02.2021                                   |
| m) Any other information              | : Nil   |

### PART -B: SUPPLEMENTARY INFORMATIONS

- |  |                          |
|--|--------------------------|
| a) Reference to sampling procedure   | : Submitted by the party |
| b) Supporting documents for the measurements taken and results derived   | : As given in part-C     |
| c) Deviation, addition or exclusion from the test methods as prescribed in relevant ISS / Work instructions , if any | : No.                    |
| d) Description of condition or unambiguous Identification of items tested instructions , if any                      | : No.                    |



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रसायन एवं पेट्रो रसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार

सिपेट : प्लास्टिक प्रौद्योगिक संस्थान( आई.पी.टी)

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TC-5748

## TEST CERTIFICATE

ULR-TC574821000005368P

Page no.2 of 3

Date:25.02.2021

REPORT NO:26212(B)

AS PER IS : : 4984-2016 with latest Amdt

PART- C: TEST RESULTS

Sl. No.	Cl. No	Tests	Test Method	Unit	Specified Requirement	Results Obtained
1	8	<b>PERFORMANCE REQUIREMENTS</b>				
1.1	8.1	Hydraulic characteristics	IS 4984-2016 (Annex.-E)			
1.1.1	8.1.1	Internal Pressure Creep Rupture Test of Pipe				
	i)	100 hours at 27 <sup>0</sup> & 10.7 Mpa induced stress		--	Shall show no signs of localized swelling , leakage or weeping & shall not burst during the Prescribed test period.	Confirm
	iii)	165 hours at 80 <sup>0</sup> & 5.4 Mpa induced stress		--	--do--	Confirm
	iv)	1000 hours at 80 <sup>0</sup> & 5.0 Mpa induced stress	---	--do--	Confirm	
1.1.2	8.1.2	Internal Pressure Creep Rupture Test of Pipe Joints	IS:4984-2016			
		48 hours at 80 <sup>0</sup> C & 5.7 Mpa induced stress		---	The pipe joints under test Shall show no signs of localized swelling , leakage or weeping & shall not burst during the Prescribed test period.	Confirm
1.2	8.6	Overall Migration	IS:9845	mg/dm <sup>2</sup> mg/l	Max. 10 Max. 60	1.81 18.33

Rohit Singh Baghel

AUTHORISED SIGNATORY

P.K.Sahoo

AUTHORISED SIGNATORY



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# सेन्ट्रल इन्स्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी

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सिपेट : प्लास्टिक प्रौद्योगिक संस्थान( आई.पी.टी)

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## TEST CERTIFICATE

ULR-TC574821000005368P

Page no.3 of 3

Date:25.02.2021

REPORT NO: 26212(B)

AS PER IS : 4984-2016 with latest Amdt

PART- C: TEST RESULTS

Sl. No.	Cl. No	Tests	Test Method	Unit	Specified Requirement	Results Obtained
1.3	8.8 *	Tensile Strength for Butt-fusion	IS :4984-2016 (Annex.-G)	---	Shall show ductile failure	Confirm
	8.10 **	Slow Crack Growth Rate	IS :4984-2016 (Annex.-E)			
		500 hrs. at 80±1°C & 0.92 Mpa Internal Test Pressure		---	Shall show no signs of localized swelling , leakage or weeping & shall not burst during the Prescribed test period.	Confirm

### PART- D : REMARKS:

\*Test was carried out using PE 100 PN 10 DN 110 SDR 13.6 fused pipe

\*\*Test was carried out using PE 100 PN 10 DN 110 SDR 13.6 plain pipe

- NB:
1. This Test Report / Certificate is issued only for the samples submitted to CIPET.
  2. The results stated above relate only to the items tested.
  3. The quality of the subsequent production lot has to be ensured by the purchaser
  4. This Test Certificate shall not be reproduced except in full without the written approval of the Laboratory.
  5. Details of test sub- contracted: Nil

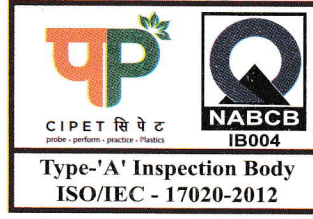
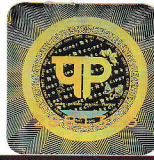
**End of the Report**

Rohit Singh Baghel

AUTHORISED SIGNATORY

P.K.Sahoo

AUTHORISED SIGNATORY



Name of the Inspecting Official: Mr. Devesh Kumar  
Code No. : 1523

W.O Centre: Hajipur  
Camp at: Ranchi

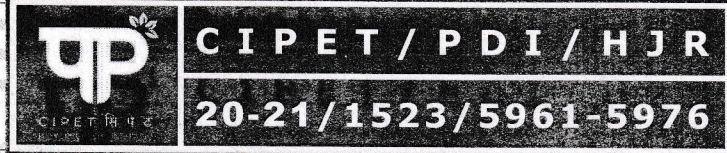
INSPECTION REPORT

1.	Ref. No.: CIPET/HJP/PDI/20-21/5966	:	Date: 20.01.2021
2.	Name of the Indentor / Consignee with detailed address	:	Executive Engineer P.H Div, Aurangabad.
3.	Indentor Order No. & Date and Extension (if any)	:	3340 & Dt: 31.12.2020
4.	Details of the Consignee	:	--
5.	Name of the Supplier / Contractor	:	M/S Md. Nasim, Vill- Basakatpur Po- Gordha, Ps- Rafiganj, Disst- Aurangabad Bihar.
6.	Supplier Order No. & Date (if any)	:	MN/05/2020-21 Date-08-12-2020
7.	Name and address of the Manufacturer / Inspection site	:	M/s Shiva Prints Pvt. Ltd. 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand)
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	:	SPPL/22/20-21, Date: 12.01.2021
9.	PDI Cell Assignment No. & Date	:	CIPET/HO/PDI/2020214039, Dated: 13.01.2021
10.	Date of inspection	:	Initiated on: 18.01.2021 Completed on: 20.01.2021
11.	Any other information	:	BIS License valid up to 31.07.2021; CML No. 5800028207; IS 4984:2016

DETAILS OF THE STORES

Sl. No	Description of the Items	Quantity as per Order	Quantity Inspected Earlier (Cumulative)	Quantity Offered for Inspection	Quantity Accepted	Quantity Rejected	Quantity Balance
<b>HDPE pipes as per IS:4984:2016 with ISI certification marks</b>							
1	HDPE Pipes PE 100, PN 8, DN 40 mm	800 Mtrs	NIL	800 Mtr.(400 Mtrs. X 2 Coil.)	800 Mtr.(400 Mtrs. X 2 Coil.)	NIL	NIL
2	HDPE Pipes PE 100, PN 8, DN 50 mm	600 Mtrs	NIL	600 Mtr.(300 Mtrs. X 2 Coil.)	600 Mtr.(300 Mtrs. X 2 Coil.)	NIL	NIL
3	HDPE Pipes PE 100, PN 10, DN 63 mm	400 Mtrs	NIL	400 Mtr.(200 Mtrs. X 2 Coils + 26 Mtrs. X 1 Coil.)	400 Mtr.(200 Mtrs. X 2 Coils + 26 Mtrs. X 1 Coil.)	NIL	NIL
4	HDPE Pipes PE 100, PN 10, DN 75 mm	200 Mtrs	NIL	200 Mtr.(200 Mtrs. X 1 Coil.)	200 Mtr.(200 Mtrs. X 1 Coil.)	NIL	NIL

Remarks: All accepted items are stamped thus:

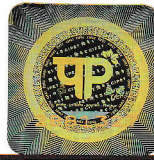


1. Certified that the items as detailed above have been inspected and accepted. The accepted items may be dispatched to the consignee. The Inspection Document Nos.: CIPET/HJP/PDI/20-21/5966A To 5966D Dated: 20.01.2021 are enclosed.
2. Any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of its report.

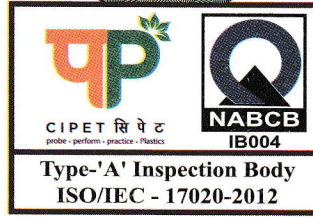
AUTHORIZED SIGNATORY

*(Signature)*

- Cc to: 1) M/S Md. Nasim, Vill- Basakatpur Po- Gordha, Ps- Rafiganj, Disst- Aurangabad Bihar.  
2) M/s Shiva Prints Pvt. Ltd., 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand)  
3) CIPET, Hajipur  
4) CIPET, Ranchi



प्रधान कार्यालय, पी.डी.आई. सेल  
रसायन एवं पेट्रो रसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
टी.वी.के. औद्योगिक इस्टेट, गिंडी, चेन्नई - 600 032  
दूरभाष : +91-44-2225 4781/2254779 /64629018  
ईमेल : pdicipet@gmail.com



Head Office, PDI Cell  
Department of Chemicals & Petrochemicals  
Ministry of Chemicals & Fertilizers, Govt. of India  
TVK Industrial Estate, Guindy, Chennai - 600 032  
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Email : pdicipet@gmail.com

### INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Aurangabad.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/22/20-21, Date: 12.01.2021

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5966 A

DATE: 20.01.2021

#### PART - A: PARTICULARS OF STORES

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| a. Description of the items           | : HDPE Pipes for Water Supply    |
| b. Grade/Variety/Type/Size/Class etc. | : PE 100, PN 8, DN 40 mm         |
| c. Declared Value, if any             | : Nil                            |
| d. Quantity                           | : 800 Mtr.(400 Mtrs. X 2 Coil.)  |
| e. Any Other Information(Batch No)    | : 20210105001001, 20201001001001 |

#### PART - B: SUPPLEMENTARY INFORMATIONS

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

#### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

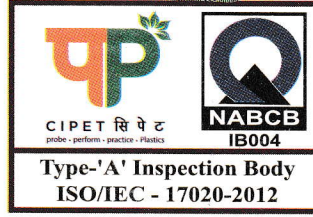
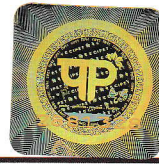
Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	4.22
5		Strip depth (Max)	mm	0.2	0.20
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	2.00	0.24
8	7.2	Length of pipes (Min)	Mtr.	400.00	400.00
9	7.4	Mean Outside diameter	mm	40.00 - 40.40	40.20 - 40.24
10		Ovality (Max)	mm	1.40	0.28
11		Wall Thickness:	mm	2.40 - 2.70	2.42 - 2.60
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.70 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.00 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2885
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 30
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	947.41 - 950.02
19	8.9	Elongation at Break	%	≥ 350	432

**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825A, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed..

#### PART - D: REMARKS

- This Inspection document shall not be reproduced except in full without the written approval of the PDI Cell at CIPET Head Office, Chennai.
- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

  
AUTHORISED SIGNATORY



## INSPECTION DOCUMENT

**Issued to:** Executive Engineer P.H Div, Aurangabad.

**Manufacturer / Supplier Inspection Call Letter No. & Date:** SPPL/22/20-21, Date: 12.01.2021

**INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)**

**DOC. NO.:** CIPET/HJP/PDI/20-21/5966 B

**DATE:** 20.01.2021

### PART - A: PARTICULARS OF STORES

- |    |                                    |   |                                |
|----|------------------------------------|---|--------------------------------|
| a. | Description of the items           | : | HDPE Pipes for Water Supply    |
| b. | Grade/Variety/Type/Size/Class etc. | : | PE 100, PN 8, DN 50 mm         |
| c. | Declared Value, if any             | : | Nil                            |
| d. | Quantity                           | : | 600 Mtr.(300 Mtrs. X 2 Coil.)  |
| e. | Any Other Information(Batch No)    | : | 20210108001001, 20210110001001 |

### PART - B: SUPPLEMENTARY INFORMATIONS

- |    |                                 |   |   |
|----|---------------------------------|---|---|
| a) | Reference to sampling procedure | : | as per IS 4984-2016 ( Random Sampling Method) |
|----|---------------------------------|---|---|

### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP SI. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	3.91
5		Strip depth (Max)	mm	0.2	0.18
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	2.00	0.33
8	7.2	Length of pipes (Min)	Mtr.	300.00	300.00
9	7.4	Mean Outside diameter	mm	50.00 - 50.40	50.24 - 50.30
10		Ovality (Max)	mm	1.40	0.28
11		Wall Thickness:	mm	3.00 - 3.40	3.12 - 3.26
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.70 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.16 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2940
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 33
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	949.95 - 950.51
19	8.9	Elongation at Break	%	≥ 350	428

**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825A, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

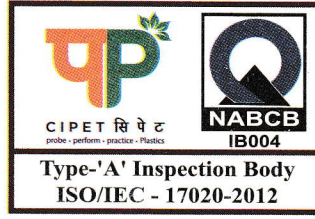
### PART - D: REMARKS

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3. Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

  
AUTHORISED SIGNATORY



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रसायन एवं पेट्रो रसायन विभाग,  
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## INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Aurangabad.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/22/20-21, Date: 12.01.2021

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5966 C

DATE: 20.01.2021

### PART - A: PARTICULARS OF STORES

- |                                       |  |
|---------------------------------------|--|
| a) Description of the items           | : HDPE Pipes for Water Supply                        |
| b) Grade/Variety/Type/Size/Class etc. | : PE 100, PN 10, DN 63 mm                            |
| c) Declared Value, if any             | : Nil  |
| d) Quantity                           | : 400 Mtr.(200 Mtrs. X 2 Coils + 26 Mtrs. X 1 Coil.) |
| e) Any Other Information(Batch No:    | : 20210104001001, 20210102001001                     |

### PART - B: SUPPLEMENTARY INFORMATIONS

- |                                    |   |
|------------------------------------|---|
| a) Reference to sampling procedure | : as per IS 4984-2016 ( Random Sampling Method) |
|------------------------------------|---|

### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	4.09
5		Strip depth (Max)	mm	0.2	0.15
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	2.00	0.45
8	7.2	Length of pipes (Min)	Mtr.	200.00	200.00
9	7.4	Mean Outside diameter	mm	63.00 - 63.40	63.16 - 63.20
10		Ovality (Max)	mm	1.50	1.03
11		Wall Thickness:	mm	4.70 - 5.30	4.73 - 5.11
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.46 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.31 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.3034
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 28
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	949.23 - 950.81
19	8.9	Elongation at Break	%	≥ 350	440

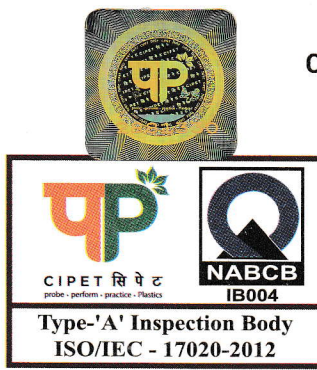
REVIEW OF DOCUMENTS: Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

### PART - D: REMARKS

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- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

AUTHORISED SIGNATORY





### INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Aurangabad.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/22/20-21, Date: 12.01.2021

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5966 D

DATE: 20.01.2021

#### PART - A: PARTICULARS OF STORES

- |    |                                    |  |
|----|------------------------------------|--|
| a) | Description of the items           | : HDPE Pipes for Water Supply                                    |
| b) | Grade/Variety/Type/Size/Class etc. | : PE 100, PN 10, DN 75 mm  |
| c) | Declared Value, if any             | : Nil  |
| d) | Quantity                           | : 200 Mtr.(200 Mtrs. X 1 Coil.)                                  |
| e) | Any Other Information(Batch No)    | : 20210109001001, 20210106001001, 20201008002001, 20201102002001 |

#### PART - B: SUPPLEMENTARY INFORMATIONS

- |    |                                 |   |
|----|---------------------------------|---|
| a) | Reference to sampling procedure | : as per IS 4984-2016 ( Random Sampling Method) |
|----|---------------------------------|---|

#### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

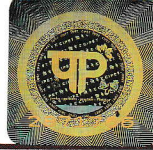
Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	5.46
5		Strip depth (Max)	mm	0.2	0.17
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	2.00	1.24
8	7.2	Length of pipes (Min)	Mtr.	200.00	200.00
9	7.4	Mean Outside diameter	mm	75.00 – 75.50	75.10 – 75.36
10		Ovality (Max)	mm	1.60	1.24
11		Wall Thickness:	mm	5.60 – 6.30	5.72 – 5.88
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.90 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.36 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2885
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 32
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	951.21 – 952.13
19	8.9	Elongation at Break	%	≥ 350	436

REVIEW OF DOCUMENTS: Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

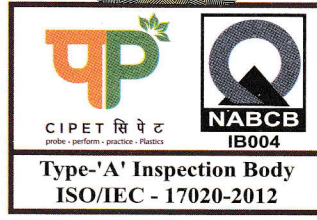
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- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

AUTHORISED SIGNATORY



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रसायन एवं पेट्रो रसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
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Email : pdicipet@gmail.com


Name of the Inspecting Official: Mr. Shiv Shankar Sahu  
Code No. : 728

W.O Centre: Hajipur  
Camp at: Ranchi


INSPECTION REPORT

1.	Ref. No.: CIPET/HJP/PDI/20-21/5830	:	Date: 08.01.2021
2.	Name of the Indentor / Consignee with detailed address	:	Executive Engineer P.H Div, Kishanganj.
3.	Indentor Order No. & Date and Extension (if any)	:	3470 & Dt: 28.12.2020
4.	Details of the Consignee	:	--
5.	Name of the Supplier / Contractor	:	M/S Shri Santosh Kumar Samvedak, Siliguri.
6.	Supplier Order No. & Date (if any)	:	SA/07/2020-21 Date-12-12-2020
7.	Name and address of the Manufacturer / Inspection site	:	M/s Shiva Prints Pvt. Ltd. 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand)
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	:	SPPL/21/20-21, Date: 31.12.2020
9.	PDI Cell Assignment No. & Date	:	CIPET/HO/PDI/2020213750, Dated: 01.01.2021
10.	Date of inspection	:	Initiated on: 06.01.2021 Completed on: 08.01.2021
11.	Any other information	:	BIS License valid up to 31.07.2021; CML No. 5800028207; IS 4984:2016

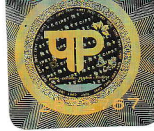
DETAILS OF THE STORES

Sl. No	Description of the Items	Quantity as per Order	Quantity Inspected Earlier (Cumulative)	Quantity Offered for Inspection	Quantity Accepted	Quantity Rejected	Quantity Balance
<b>HDPE pipes as per IS:4984:2016 with ISI certification marks</b>							
1	HDPE Pipes PE 100, PN 8, DN 50 mm	2100 Mtrs	NIL	2100 Mtr.(300 Mtrs. X 7 Coils.)	2100 Mtr.(300 Mtrs. X 7 Coils.)	NIL	NIL
2	HDPE Pipes PE 100, PN 10, DN 63 mm	1430 Mtrs	NIL	1430 Mtr.(200 Mtrs. X 7 Coils + 30 Mtrs x 1 Coil)	1430 Mtr.(200 Mtrs. X 7 Coils + 30 Mtrs x 1 Coil)	NIL	NIL
<b>Remarks: All accepted items are stamped thus:</b>				 <b>CIPET / PDI / HJP</b> <b>20-21 / 728 / 5824 - 5832</b>			

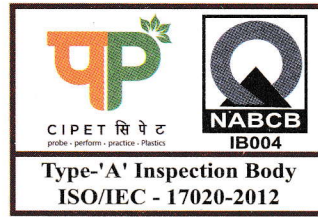
1. Certified that the items as detailed above have been inspected and accepted. The accepted items may be dispatched to the consignee. The Inspection Document Nos.: CIPET/HJP/PDI/20-21/5830A To 5830B Dated: 08.01.2021 are enclosed.
2. Any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of its report.

  
**AUTHORIZED SIGNATORY**  
अधिकृत हस्ताक्षरकर्ता / Authorized Signatory  
शिव शंकर साहू / Shiv Shankar Sahu  
कोड क्र०-७२८ / Code No.- 728

- Cc to: 1) M/S Shri Santosh Kumar Samvedak, Siliguri.  
2) M/s Shiva Prints Pvt. Ltd., 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand)  
3) CIPET, Hajipur  
4) CIPET, Ranchi



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Head Office, PDI Cell  
Department of Chemicals & Petrochemicals  
Ministry of Chemicals & Fertilizers, Govt. of India  
TVK Industrial Estate, Guindy, Chennai - 600 032  
Phone : +91-44-2225 4781 / 22254779 /64629018  
Email : pdicipet@gmail.com

### INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Kishanganj.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/20/20-21, Date: 31.12.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5830 A

DATE: 08.01.2021

#### PART - A: PARTICULARS OF STORES

- |    |                                    |   |  |
|----|------------------------------------|---|--|
| a. | Description of the items           | : | HDPE Pipes for Water Supply                  |
| b. | Grade/Variety/Type/Size/Class etc. | : | PE 100, PN 8, DN 50 mm                       |
| c. | Declared Value, if any             | : | Nil  |
| d. | Quantity                           | : | 2100 Mtr.(300 Mtrs. X 7 Coils.)              |
| e. | Any Other Information(Batch No)    | : | 20201208001001,20200303001001,20200930001001 |

#### PART - B: SUPPLEMENTARY INFORMATIONS

- |    |                                 |   |   |
|----|---------------------------------|---|---|
| a) | Reference to sampling procedure | : | as per IS 4984-2016 ( Random Sampling Method) |
|----|---------------------------------|---|---|


#### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

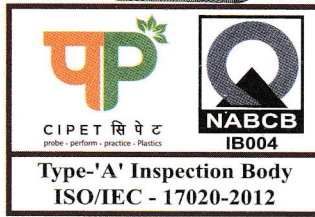
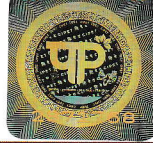
Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	3.90
5		Strip depth (Max)	mm	0.2	0.18
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	2.00	1.20
8	7.2	Length of pipes (Min)	Mtr.	300.00	300.00
9	7.4	Mean Outside diameter	mm	50.00 – 50.40	50.12 – 50.36
10		Ovality (Max)	mm	1.40	1.10
11		Wall Thickness:	mm	3.00 – 3.40	3.08 – 3.32
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 2.20 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.35 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2905
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 28
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	950.93 – 951.78
19	8.9	Elongation at Break	%	≥ 350	410

REVIEW OF DOCUMENTS: Type Test Report No: CIPET/JA/TEST/2020-21/00825A, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs , I.P.C.R. Test at 80°C for 165 Hrs , I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

#### PART - D: REMARKS

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- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

  
AUTHORISED SIGNATORY  
अधिकृत हस्ताक्षरकर्ता / Authorised Signatory  
शिव शंकर साहु / Shiv Shankar Sahu  
कोड क्र०-७२८ / Code No.- 728



## INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Kishanganj.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/20/20-21, Date: 31.12.2020

INSPECTION DOCUMENT AS PER IS : 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5830 B

DATE: 08.01.2021

### PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipes for Water Supply  
b) Grade/Variety/Type/Size/Class etc. : PE 100, PN 10, DN 63 mm  
c) Declared Value, if any : Nil  
d) Quantity : 1430 Mtr.(200 Mtrs. X 7 Coils + 30 Mtrs x 1 Coil)  
e) Any Other Information(Batch No: : 20201206001001,20200229001001,20200426001001

### PART - B: SUPPLEMENTARY INFORMATIONS

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	4.78
5		Strip depth (Max)	mm	0.2	0.18
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	2.00	1.28
8	7.2	Length of pipes (Min)	Mtr.	200.00	200.00
9	7.4	Mean Outside diameter	mm	63.00 - 63.40	63.10 - 63.26
10		Ovality (Max)	mm	1.50	1.34
11		Wall Thickness:	mm	4.70 - 5.30	4.80 - 5.06
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 2.00 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.30 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2850
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 30
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	951.16 - 951.66
19	8.9	Elongation at Break	%	≥ 350	406

REVIEW OF DOCUMENTS: Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

### PART - D: REMARKS

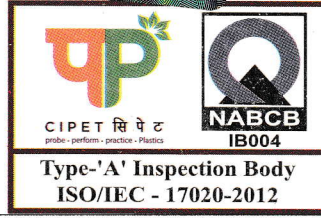
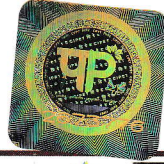
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- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

  
AUTHORISED SIGNATORY

अधिकृत हस्ताक्षरकर्ता / Authorised Signatory

शिव शंकर साहू / Shiv Shankar Sahu

कोड नं. 162 / Code No. 728



Name of the Inspecting Official: Mr. S. S. Sahu  
Code No. 728

W.O Centre: Hajipur  
Camp at: Ranchi

INSPECTION REPORT

1.	Ref. No.: CIPET/HJP/PDI/20-21/3577	Date : 30.07.2020
2.	Name of the Indentor / Consignee with detailed address	: Executive Engineer -Cum Project Manager DPMU Purnea.
3.	Indentor Order No. & Date and Extension (if any)	: 3092 & Dt: 08.11.2019
4.	Details of the Consignee	: --
5.	Name of the Supplier / Contractor	: M/S. Shri Awadhesh Rai Vill- Kushhar , Block- Kesariya, District East Champaran Bihar.
6.	Supplier Order No. & Date (if any)	: SAR/7/2020-21 Date-05-07-2020
7.	Name and address of the Manufacturer / Inspection site	: M/s Shiva Prints Pvt. Ltd. 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand)
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	: SPPL/13/20-21, Date: 17.07.2020
9.	PDI Cell Assignment No. & Date	: CIPET/HO/PDI/2020211278 ,Dated: 24.07.2020
10.	Date of inspection	: Initiated on: 28.07.2020 Completed on: 30.07.2020
11.	Any other information	: BIS License valid up to 31.07.2021; CML No. 5800028207; IS 4984:2016

DETAILS OF THE STORES

Sl. No	Description of the Items	Quantity as per Order	Quantity Inspected Earlier (Cumulative)	Quantity Offered for Inspection	Quantity Accepted	Quantity Rejected	Quantity Balance
<b>HDPE pipes as per IS:4984:2016 with ISI certification marks</b>							
1	HDPE Pipes PE 100, PN 10, DN 90 mm	5813 Mtrs	NIL	5813 Mtrs (150 Mtrs. x 38 Coils + 113 Mtr x 1 Coil.)	5813 Mtrs (150 Mtrs. x 38 Coils + 113 Mtr x 1 Coil.)	NIL	NIL
2	HDPE Pipes PE 100, PN 10, DN 110 mm	494 Mtrs	NIL	494 Mtrs (6 Mtrs. x 82 Pcs + 02 Mtr x 1 Pcs.)	494 Mtrs (6 Mtrs. x 82 Pcs + 02 Mtr x 1 Pcs.)	NIL	NIL
3	HDPE Pipes PE 100, PN 10, DN 125 mm	12 Mtrs	NIL	12 Mtrs (6 Mtrs. x 02 Pcs)	12 Mtrs (6 Mtrs. x 02 Pcs)	NIL	NIL
4	HDPE Pipes PE 100, PN 10, DN 140 mm	386 Mtrs	NIL	386 Mtrs (6 Mtrs. x 64 Pcs+ 02 Mtr x 1 Pcs.)	386 Mtrs (6 Mtrs. x 64 Pcs+ 02 Mtr x 1 Pcs.)	NIL	NIL
5	HDPE Pipes PE 100, PN 10, DN 160 mm	139 Mtrs	NIL	139 Mtrs (6 Mtrs. x 23 Pcs+ 01 Mtr x 1 Pcs.)	139 Mtrs (6 Mtrs. x 23 Pcs+ 01 Mtr x 1 Pcs.)	NIL	NIL
6	HDPE Pipes PE 100, PN 10, DN 225 mm	528 Mtrs	NIL	528 Mtrs (6 Mtrs. x 88 Pcs.)	528 Mtrs (6 Mtrs. x 88 Pcs.)	NIL	NIL
7	HDPE Pipes PE 100, PN 10, DN 250 mm	272 Mtrs	NIL	272 Mtrs (6 Mtrs. x 45 Pcs + 02 Mtr x 1 Pcs.)	272 Mtrs (6 Mtrs. x 45 Pcs + 02 Mtr x 1 Pcs.)	NIL	NIL
8	HDPE Pipes PE 100, PN 10, DN 280 mm	7 Mtrs	NIL	7 Mtrs (6 Mtrs. x 01 Pcs + 01 Mtr x 1 Pcs.)	7 Mtrs (6 Mtrs. x 01 Pcs + 01 Mtr x 1 Pcs.)	NIL	NIL

Remarks: All accepted items are stamped thus:



1. Certified that the items as detailed above have been inspected and accepted. The accepted items may be dispatched to the consignee. The Inspection Document Nos.: CIPET/HJP/PDI/20-21/3577A To 3577H Dated: 30.07.2020 are enclosed.
2. Any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of its report.

AUTHORIZED SIGNATORY

- Cc to: 1) M/S Shri Awadhesh Rai Vill- Kushhar , Block- Kesariya, District East Champaran Bihar.  
2) M/s Shiva Prints Pvt. Ltd., 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand).  
3) CIPET, Hajipur  
4) CIPET, Ranchi

अधिकृत हस्ताक्षरकर्ता / Authorized Signatory  
शिव शंकर साह / Shiv Shankar Sahu  
कोड नं०-७२८ / Code No.- 728



प्रधान कार्यालय, पी.डी.आई. सेल्

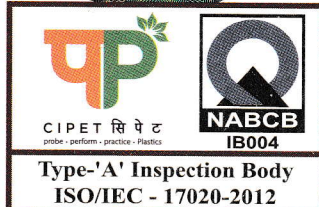
रसायन एवं पेट्रो रसायन विभाग,

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

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Head Office, PDI Cell

Department of Chemicals & Petrochemicals

Ministry of Chemicals & Fertilizers, Govt. of India

TVK Industrial Estate, Guindy, Chennai - 600 032

Phone : +91-44-2225 4781 / 22254779 /64629018

Email : pdicipet@gmail.com

**INSPECTION DOCUMENT**

**Issued to:** Executive Engineer –Cum Project Manager DPMU Purnea.

**Manufacturer / Supplier Inspection Call Letter No. & Date:** SPPL/13/20-21, Date: 17.07.2020

**INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)**

**DOC. NO.:** CIPET/HJP/PDI/20-21/3577A

**DATE:** 30.07.2020

**PART - A: PARTICULARS OF STORES**

- |                                       |   |  |
|---------------------------------------|---|--|
| a) Description of the items           | : | HDPE Pipes for Water Supply                          |
| b) Grade/Variety/Type/Size/Class etc. | : | PE 100, PN 10, DN 90 mm                              |
| c) Declared Value, if any             | : | Nil  |
| d) Quantity                           | : | 5813 Mtrs (150 Mtrs. x 38 Coils + 113 Mtr x 1 Coil.) |
| e) Any Other Information (Batch No)   | : | 20200218002002, 2020629002001                        |

**PART - B: SUPPLEMENTARY INFORMATIONS**

- |                                    |   |   |
|------------------------------------|---|---|
| a) Reference to sampling procedure | : | as per IS 4984-2016 ( Random Sampling Method) |
|------------------------------------|---|---|

**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	4.90
5		Strip depth (Max)	mm	0.2	0.17
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	3.00	2.60
8	7.2	Length of pipes (Min)	Mtr.	150.00	150.00
9	7.4	Mean Outside diameter	mm	90.00 – 90.60	90.06 – 90.30
10		Ovality (Max)	mm	1.80	1.16
11		Wall Thickness:	mm	6.70 – 7.50	6.76 – 7.04
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.74 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.37 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2937
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 24
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	949.68 - 951.02
19	8.9	Elongation at Break	%	≥ 350	416

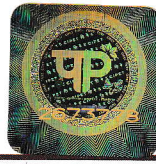
**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

**PART - D: REMARKS**

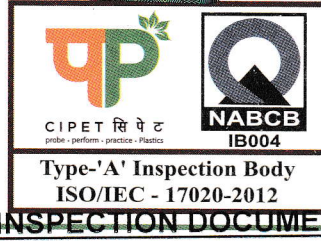
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- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

**AUTHORISED SIGNATORY**

अधिकृत हस्ताक्षरकर्ता / Authorised Signatory  
शिव शंकर साहु / Shiv Shankar Sahu  
कोड क्र०-७२८ / Code No. - 728



प्रधान कार्यालय, पी.डी.आई. सेल्  
रसायन एवं पेट्रो रसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
टी.वी.के. औद्योगिक इस्टेट, गिंडी, चेन्नई - 600 032  
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Head Office, PDI Cell  
Department of Chemicals & Petrochemicals  
Ministry of Chemicals & Fertilizers, Govt. of India  
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**INSPECTION DOCUMENT**

Issued to: Executive Engineer –Cum Project Manager DPMU Purnea.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/13/20-21, Date: 17.07.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/3577B

DATE: 30.07.2020

**PART - A: PARTICULARS OF STORES**

- |                                       |   |   |
|---------------------------------------|---|---|
| a) Description of the items           | : | HDPE Pipes for Water Supply                   |
| b) Grade/Variety/Type/Size/Class etc. | : | PE 100, PN 10, DN 110 mm                      |
| c) Declared Value, if any             | : | Nil   |
| d) Quantity                           | : | 494 Mtrs (6 Mtrs. x 82 Pcs + 02 Mtr x 1 Pcs.) |
| e) Any Other Information (Batch No)   | : | 20200306002001                                |

**PART - B: SUPPLEMENTARY INFORMATIONS**

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	5.44
5		Strip depth (Max)	mm	0.2	0.16
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	3.00	1.24
8	7.2	Length of pipes (Min)	Mtr.	6.000	6.006 – 6.016
9	7.4	Mean Outside diameter	mm	110.00 – 110.70	110.08 – 110.24
10		Ovality (Max)	mm	2.20	1.10
11		Wall Thickness:	mm	8.10 – 9.00	8.18 – 8.40
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.47 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.42 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2867
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 22
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	949.35 – 950.90
19	8.9	Elongation at Break	%	≥ 350	418

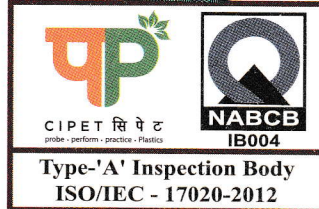
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**PART - D: REMARKS**

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- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

**AUTHORISED SIGNATORY**

अधिकृत हस्ताक्षरकर्ता / Authorized signatory  
शिव शंकर साहु / Shiv Shankar Sahu  
कोड क्र०-७२८ / Code No.- 728



**INSPECTION DOCUMENT**

Issued to: Executive Engineer –Cum Project Manager DPMU Purnea.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/13/20-21, Date: 17.07.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/3577C

DATE: 30.07.2020

**PART - A: PARTICULARS OF STORES**

- |                                       |                               |
|---------------------------------------|-------------------------------|
| a) Description of the items           | : HDPE Pipes for Water Supply |
| b) Grade/Variety/Type/Size/Class etc. | : PE100, PN 10, DN125 mm      |
| c) Declared Value, if any             | : Nil                         |
| d) Quantity                           | : 12 Mtrs (6 Mtrs. x 02 Pcs)  |
| e) Any Other Information(Batch No)    | : 20200309002001              |

**PART - B: SUPPLEMENTARY INFORMATIONS**

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	5.58
5		Strip depth (Max)	mm	0.2	0.16
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	3.00	1.48
8	7.2	Length of pipes (Min)	Mtr.	6.000	6.005 – 6.016
9	7.4	Mean Outside diameter	mm	125.00 – 125.80	125.08 – 125.36
10		Ovality (Max)	mm	2.50	1.32
11		Wall Thickness:	mm	9.20 – 10.20	9.26 – 9.46
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.59 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.60 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2805
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 26
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	949.77 – 951.34
19	8.9	Elongation at Break	%	≥ 350	408

**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs , I.P.C.R. Test at 80°C for 165 Hrs , I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

**PART - D: REMARKS**

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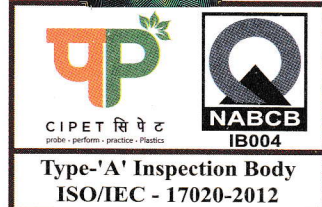
**AUTHORISED SIGNATORY**

अधिकृत हस्ताक्षरकर्ता / Authorized Signatory

शिव शंकर साहु / Shiv Shankar Sahu

कोड क्र०-७२८ / Code No.- 728





INSPECTION DOCUMENT

Issued to : Executive Engineer –Cum Project Manager DPMU Purnea.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/13/20-21, Date: 17.07.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/3577D

DATE: 30.07.2020

**PART - A: PARTICULARS OF STORES**

- |                                       |  |
|---------------------------------------|--|
| a) Description of the items           | : HDPE Pipes for Water Supply                  |
| b) Grade/Variety/Type/Size/Class etc. | : PE100, PN 10, DN140 mm                       |
| c) Declared Value, if any             | : Nil  |
| d) Quantity                           | : 386 Mtrs (6 Mtrs. x 64 Pcs+ 02 Mtr x 1 Pcs.) |
| e) Any Other Information(Batch No)    | : 20200310002001                               |

**PART - B: SUPPLEMENTARY INFORMATIONS**

- |                                    |   |
|------------------------------------|---|
| a) Reference to sampling procedure | : as per IS 4984-2016 ( Random Sampling Method) |
|------------------------------------|---|

**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	5.70
5		Strip depth (Max)	mm	0.5	0.17
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	4.00	1.46
8	7.2	Length of pipes (Min)	Mtr.	6.000	6.008 – 6.018
9	7.4	Mean Outside diameter	mm	140.00 – 140.90	140.08 – 140.34
10		Ovality (Max)	mm	2.80	1.48
11		Wall Thickness:	mm	10.30 – 11.40	10.38 – 10.64
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.70 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.46 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2870
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 22
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	949.81 – 950.97
19	8.9	Elongation at Break	%	≥ 350	410

**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs , I.P.C.R. Test at 80°C for 165 Hrs , I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

**PART - D: REMARKS**

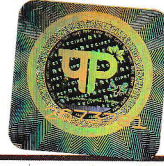
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**AUTHORISED SIGNATORY**

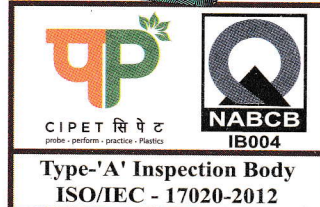
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शिव शंकर साहु / Shiv Shankar Sahu

कोड क्र०-७२८ / Code No.- 728



प्रधान कार्यालय, पी.डी.आई. सेल्  
रसायन एवं पेट्रो रसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
टी.वी.के. औद्योगिक इस्टेट, गिंडी, चेन्नई - 600 032  
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**INSPECTION DOCUMENT**

Issued to : Executive Engineer –Cum Project Manager DPMU Purnea.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/13/20-21, Date: 17.07.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/3577E

DATE: 30.07.2020

**PART - A: PARTICULARS OF STORES**

- f) Description of the items : HDPE Pipes for Water Supply  
a) Grade/Variety/Type/Size/Class etc. : PE100, PN 10, DN160 mm  
b) Declared Value, if any : Nil  
c) Quantity : 139 Mtrs (6 Mtrs. x 23 Pcs+ 01 Mtr x 1 Pcs.)  
d) Any Other Information(Batch No) : 20200206002001

**PART - B: SUPPLEMENTARY INFORMATIONS**

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	5.90
5		Strip depth (Max)	mm	0.5	0.18
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	4.00	1.60
8	7.2	Length of pipes (Min)	Mtr.	6.000	6.004 – 6.019
9	7.4	Mean Outside diameter	mm	160.00 – 161.00	160.06 – 160.28
10		Ovality (Max)	mm	3.20	1.50
11		Wall Thickness:	mm	11.80 – 13.10	11.90 – 12.24
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.79 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.46 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2865
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 24
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	949.74 – 951.84
19	8.9	Elongation at Break	%	≥ 350	416

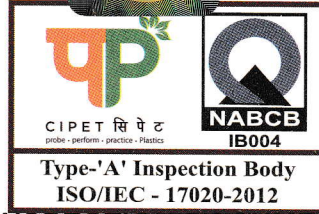
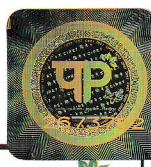
**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs , I.P.C.R. Test at 80°C for 165 Hrs , I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

**PART - D: REMARKS**

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**AUTHORISED SIGNATORY**

अधिकृत हस्ताक्षरकर्ता / Authorised Signatory  
शिव शंकर साहु / Shiv Shankar Sahu  
कोड क्र०-७२८ / Code No.- 728



**INSPECTION DOCUMENT**

**Issued to:** Executive Engineer –Cum Project Manager DPMU Purnea.

**Manufacturer / Supplier Inspection Call Letter No. & Date:** SPPL/13/20-21, Date: 17.07.2020

**INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)**

**DOC. NO.:** CIPET/HJP/PDI/20-21/3577F

**DATE:** 30.07.2020

**PART - A: PARTICULARS OF STORES**

- |    |                                    |                                |
|----|------------------------------------|--------------------------------|
| a) | Description of the items           | : HDPE Pipes for Water Supply  |
| a) | Grade/Variety/Type/Size/Class etc. | : PE100, PN 10, DN225 mm       |
| b) | Declared Value, if any             | : Nil                          |
| c) | Quantity                           | : 528 Mtrs (6 Mtrs. x 88 Pcs.) |
| d) | Any Other Information(Batch No)    | : 20200707002001               |

**PART - B: SUPPLEMENTARY INFORMATIONS**

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

**Results of Witnessed Tests**

Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	6.38
5		Strip depth (Max)	mm	0.5	0.18
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	5.00	4.48
8	7.2	Length of pipes (Min)	Mtr.	6.000	6.006 – 6.016
9	7.4	Mean Outside diameter	mm	225.00 – 226.40	225.08 – 225.28
10		Ovality (Max)	mm	4.5	3.90
11		Wall Thickness:	mm	16.60 – 18.40	16.70 – 17.42
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-)1.77 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.36 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2992
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 21
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	948.21- 951.37
19	8.9	Elongation at Break	%	≥ 350	398

**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

**PART - D: REMARKS**

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**AUTHORISED SIGNATORY**

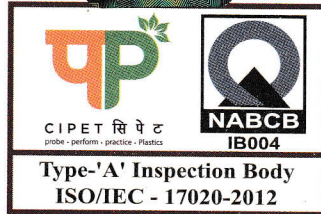
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शिव शंकर साहू / Shiv Shankar Sahu

कोड क्र०-७२८ / Code No.- 728



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Department of Chemicals & Petrochemicals  
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Email : pdicipet@gmail.com

**INSPECTION DOCUMENT**

Issued to: Executive Engineer –Cum Project Manager DPMU Purnea.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/13/20-21, Date: 17.07.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/3577G

DATE: 30.07.2020

**PART - A: PARTICULARS OF STORES**

- a) Description of the items : HDPE Pipes for Water Supply  
b) Grade/Variety/Type/Size/Class etc. : PE100, PN 10, DN250 mm  
c) Declared Value, if any : Nil  
d) Quantity : 272 Mtrs (6 Mtrs. x 45 Pcs + 02 Mtr x 1 Pcs.)  
e) Any Other Information(Batch No) : 20200706002001

**PART - B: SUPPLEMENTARY INFORMATIONS**

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)


**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	6.82
5		Strip depth (Max)	mm	0.5	0.19
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	5.00	4.60
8	7.2	Length of pipes (Min)	Mtr.	6.000	6.009 – 6.018
9	7.4	Mean Outside diameter	mm	250.00 – 251.50	250.06 – 250.26
10		Ovality (Max)	mm	5.00	4.16
11		Wall Thickness:	mm	18.40 – 20.30	18.50 – 19.20
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-)-1.57 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.37 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.3025
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 25
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	948.57 – 951.44
19	8.9	Elongation at Break	%	≥ 350	392

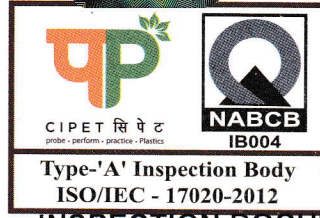
REVIEW OF DOCUMENTS: Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs , I.P.C.R. Test at 80°C for 165 Hrs , I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

**PART - D: REMARKS**

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AUTHORISED SIGNATORY

अधिकृत हस्ताक्षरकर्ता / Authorized Signatory  
शिव शंकर साहु / Shiv Shankar Sahu  
कोड नं०-७२८ / Code No.- 728



**INSPECTION DOCUMENT**

Issued to: Executive Engineer –Cum Project Manager DPMU Purnea.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/13/20-21, Date: 17.07.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/3577H

DATE: 30.07.2020

**PART - A: PARTICULARS OF STORES**

- f) Description of the items : HDPE Pipes for Water Supply  
g) Grade/Variety/Type/Size/Class etc. : PE100, PN 10, DN280 mm  
h) Declared Value, if any : Nil  
i) Quantity : 7 Mtrs (6 Mtrs. x 01 Pcs + 01 Mtr x 1 Pcs.)  
j) Any Other Information(Batch No) : 20200710002001

**PART - B: SUPPLEMENTARY INFORMATIONS**

- b) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

**PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS**

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Colour of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	6.90
5		Strip depth (Max)	mm	0.5	0.18
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	5.00	4.26
8	7.2	Length of pipes (Min)	Mtr.	6.000	6.008 – 6.016
9	7.4	Mean Outside diameter	mm	280.00 – 281.40	280.06 – 280.22
10		Ovality (Max)	mm	9.8	8.20
11		Wall Thickness:	mm	20.60 – 22.80	20.72 – 21.14
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-)1.76 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.48 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.3085
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 25
18	8.7	Density	kg/m <sup>3</sup>	930.00 – 960.00	947.50 - 950.53
19	8.9	Elongation at Break	%	≥ 350	390

**REVIEW OF DOCUMENTS:** Type Test Report No: CIPET/VJA/TEST/2020-21/00825B, Dated 29.07.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Vijayawada is reviewed.

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**AUTHORISED SIGNATORY**

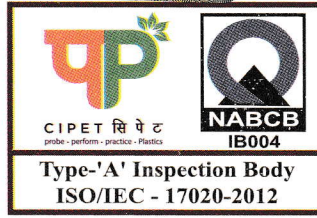
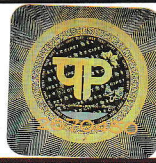
अधिकृत हस्ताक्षरकर्ता / Authorised Signatory

शिव शंकर साहु / Shiv Shankar Sahu

कोड क्र०-७२८ / Code No.- 728

सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग  
एण्ड टेक्नोलॉजी ( सिपेट )

प्रधान कार्यालय, पी.डी.आई. सेल  
रसायन एवं पेट्रो रसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
टी.वी.के. औद्योगिक इस्टेट, गिंडी, चेन्नई - 600 032  
दूरभाष : +91-44-2225 4781/2254779 /64629018  
ईमेल : pdicipet@gmail.com



CENTRAL INSTITUTE OF PLASTICS ENGINEERING  
& TECHNOLOGY (CIPET)

Head Office, PDI Cell

Department of Chemicals & Petrochemicals  
Ministry of Chemicals & Fertilizers, Govt. of India  
TVK Industrial Estate, Guindy, Chennai - 600 032  
Phone : +91-44-2225 4781 / 22254779 /64629018  
Email : pdicipet@gmail.com

Name of the Inspecting Official: Mr. B. Srikar  
Code No. : 945

W.O Centre: Hajipur  
Camp at: Ranchi

**INSPECTION REPORT**

1.	Ref. No.: CIPET/HJP/PDI/20-21/5033	Date : 10.10.2020
2.	Name of the Indentor / Consignee with detailed address	: Executive Engineer P.H Div, Purnea.
3.	Indentor Order No. & Date and Extension (if any)	: 6092 & Dt: 31.12.2019
4.	Details of the Consignee	: --
5.	Name of the Supplier / Contractor	: M/S Arun Yadav, Jagir Khuth, Laxmipur, Araria.
6.	Supplier Order No. & Date (if any)	: AY/01/2020-21 Date-24-09-2020
7.	Name and address of the Manufacturer / Inspection site	: M/s Shiva Prints Pvt. Ltd. 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand)
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	: SPPL/17/20-21, Date: 29.09.2020
9.	PDI Cell Assignment No. & Date	: CIPET/HO/PDI/2020212323 ,Dated: 05.10.2020
10.	Date of inspection	: Initiated on: 08.10.2020 Completed on: 10.10.2020
11.	Any other information	: BIS License valid up to 31.07.2021; CML No. 5800028207; IS 4984:2016

**DETAILS OF THE STORES**

Sl. No	Description of the Items	Quantity as per Order	Quantity Inspected Earlier (Cumulative)	Quantity Offered for Inspection	Quantity Accepted	Quantity Rejected	Quantity Balance
<b>HDPE pipes as per IS:4984:2016 with ISI certification marks</b>							
1	HDPE Pipes PE 100, PN 8, DN 40 mm	2900 Mtrs	NIL	2900 Mtrs (400 Mtrs x 07 Coils + 100 Mtr x 01 Coil.)	2900 Mtrs (400 Mtrs x 07 Coils + 100 Mtr x 01 Coil.)	NIL	NIL
2	HDPE Pipes PE 100, PN 8, DN 50 mm	1690 Mtrs	NIL	1690 Mtrs (300 Mtrs x 05 Coils + 190 Mtr x 01 Coil.)	1690 Mtrs (200 Mtrs x 08 Coils + 90 Mtr x 01 Coil.)	NIL	NIL
3	HDPE Pipes PE 100, PN 10, DN 63 mm	1566 Mtrs	NIL	1566 Mtrs (200 Mtrs x 07 Coils + 166 Mtr x 01 Coil.)	1566 Mtrs (200 Mtrs x 07 Coils + 166 Mtr x 01 Coil.)	NIL	NIL
4	HDPE Pipes PE 100, PN 10, DN 75 mm	1700 Mtrs	NIL	1700 Mtrs (200 Mtrs x 08 Coils + 100 Mtr x 01 Coil.)	1700 Mtrs (200 Mtrs x 08 Coils + 100 Mtr x 01 Coil.)	NIL	NIL
5	HDPE Pipes PE 100, PN 10, DN 90 mm	1828 Mtrs	NIL	1828 Mtrs (150 Mtrs x 12 Coils + 28 Mtr x 01 Coil.)	1828 Mtrs (150 Mtrs x 12 Coils + 28 Mtr x 01 Coil.)	NIL	NIL

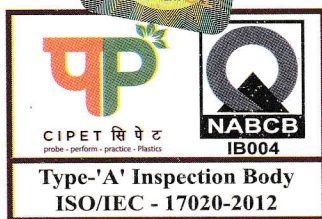
Remarks: All accepted items are stamped thus:



1. Certified that the items as detailed above have been inspected and accepted. The accepted items may be dispatched to the consignee. The Inspection Document Nos.: CIPET/HJP/PDI/20-21/5033A To 5033E Dated: 10.10.2020 are enclosed.
2. Any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of its report.

**AUTHORIZED SIGNATORY**

- Cc to: 1) M/S Arun Yadav, Jagir Khuth, Laxmipur, Araria.  
2) M/s Shiva Prints Pvt. Ltd., 56-57B, Tupudana Ind. Area Hatia, Ranchi-834003 (Jharkhand)  
3) CIPET, Hajipur  
4) CIPET, Ranchi



## INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Purnia.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/17/20-21, Date: 29.09.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5033A

DATE: 10.10.2020

### PART - A: PARTICULARS OF STORES

- |                                       |  |
|---------------------------------------|--|
| a. Description of the items           | : HDPE Pipes for Water Supply                          |
| b. Grade/Variety/Type/Size/Class etc. | : PE 100, PN 8, DN 40 mm                               |
| c. Declared Value, if any             | : Nil  |
| d. Quantity                           | : 2900 Mtrs (400 Mtrs x 07 Coils + 100 Mtr x 01 Coil.) |
| e. Any Other Information(Batch No)    | : 20200902001001,20200301001001,20200903001001         |

### PART - B: SUPPLEMENTARY INFORMATIONS

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

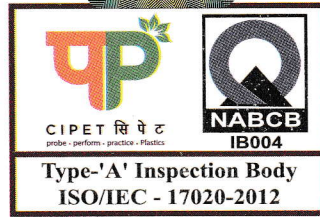
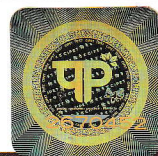
Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Color of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	3.94
5		Strip depth (Max)	mm	0.2	0.16
6		7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.
7	Out of square of pipe end (max)		mm	2.00	1.10
8	7.2	Length of pipes (Min)	Mtr.	400.00	400.00
9	7.4	Mean Outside diameter	mm	40.00 - 40.40	40.10 - 40.32
10		Ovality (Max)	mm	1.40	1.24
11		Wall Thickness:	mm	2.40 - 2.70	2.48 - 2.66
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.90 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.38 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2790
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 26
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	948.75 - 950.59
19	8.9	Elongation at Break	%	≥ 350	394

REVIEW OF DOCUMENTS: Type Test Report No: PTC/TR/2019-20/0550, Dated 14.01.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Hajipur is reviewed.

### PART - D: REMARKS

- This Inspection document shall not be reproduced except in full without the written approval of the PDI Cell at CIPET Head Office, Chennai.
- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27 ± 2 °C & Relative Humidity 65 ± 5%.

AUTHORISED SIGNATORY



### INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Purnia

Manufacturer / Supplier Inspection Call Letter No. & Date : SPPL/17/20-21, Date: 29.09.2020

INSPECTION DOCUMENT AS PER IS : 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5033B

DATE: 10.10.2020

#### PART - A: PARTICULARS OF STORES

- a. Description of the items : HDPE Pipes for Water Supply  
b. Grade/Variety/Type/Size/Class etc. : PE 100, PN 8, DN 50 mm  
c. Declared Value, if any : Nil  
d. Quantity : 1690 Mtrs (300 Mtrs x 05 Coils + 190 Mtr x 01 Coil.)  
e. Any Other Information(Batch No) : 20200830001001,20200303001001  
f. **PART - B: SUPPLEMENTARY INFORMATIONS**

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

#### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Color of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	3.68
5		Strip depth (Max)	mm	0.2	0.17
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	2.00	1.30
8	7.2	Length of pipes (Min)	Mtr.	300.00	300.00
9	7.4	Mean Outside diameter	mm	50.00 - 50.40	50.08 - 50.34
10		Ovality (Max)	mm	1.40	1.16
11		Wall Thickness:	mm	3.00 - 3.40	3.10 - 3.32
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.70 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.50 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2767
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 28
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	949.33 - 950.03
19	8.9	Elongation at Break	%	≥ 350	398

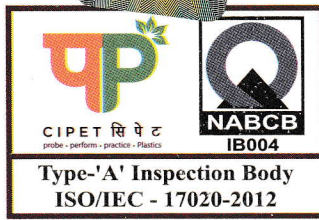
REVIEW OF DOCUMENTS: Type Test Report No: PTC/TR2019-20/0550, Dated 14.01.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Hajipur is reviewed.

#### PART - D: REMARKS

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- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

  
AUTHORISED SIGNATORY





### INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Purnia

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/17/20-21, Date: 29.09.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5033C

DATE: 10.10.2020

#### PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipes for Water Supply  
b) Grade/Variety/Type/Size/Class etc. : PE 100, PN 10, DN 63 mm  
c) Declared Value, if any : Nil  
d) Quantity : 1566 Mtrs (200 Mtrs x 07 Coils + 166 Mtr x 01 Coil.)  
e) Any Other Information(Batch No: : 20200908001001,20200229001001

#### PART - B: SUPPLEMENTARY INFORMATIONS

- a) Reference to sampling procedure : as per IS 4984-2016 ( Random Sampling Method)

#### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Color of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	4.76
5		Strip depth (Max)	mm	0.2	0.17
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	2.00	1.20
8	7.2	Length of pipes (Min)	Mtr.	200.00	200.00
9	7.4	Mean Outside diameter	mm	63.00 - 63.40	63.08 - 63.24
10		Ovality (Max)	mm	1.50	1.22
11		Wall Thickness:	mm	4.70 - 5.30	4.76 - 5.06
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.70 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.48 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2730
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 30
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	949.79 - 950.66
19	8.9	Elongation at Break	%	≥ 350	412

REVIEW OF DOCUMENTS: Type Test Report No: PTC/TR2019-20/0550, Dated 14.01.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Hajipur is reviewed.

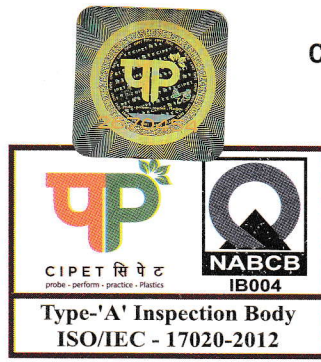
#### PART - D: REMARKS

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- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

AUTHORISED SIGNATORY

ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग  
एण्ड टेक्नोलॉजी (सिपेट)

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CENTRAL INSTITUTE OF PLASTICS ENGINEERING  
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Head Office, PDI Cell

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Email : pdicipet@gmail.com

## INSPECTION DOCUMENT

Issued to: Executive Engineer P.H Div, Purnia.

Manufacturer / Supplier Inspection Call Letter No. & Date: SPPL/17/20-21, Date: 29.09.2020

INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)

DOC. NO.: CIPET/HJP/PDI/20-21/5033D

DATE: 10.10.2020

### PART - A: PARTICULARS OF STORES

- |    |                                    |  |
|----|------------------------------------|--|
| a) | Description of the items           | : HDPE Pipes for Water Supply                          |
| b) | Grade/Variety/Type/Size/Class etc. | : PE 100, PN 10, DN 75 mm                              |
| c) | Declared Value, if any             | : Nil  |
| d) | Quantity                           | : 1700 Mtrs (200 Mtrs x 08 Coils + 100 Mtr x 01 Coil.) |
| e) | Any Other Information(Batch No)    | : 20200905002001,20200227001001,20200906002001         |

### PART - B: SUPPLEMENTARY INFORMATIONS

- |    |                                 |   |
|----|---------------------------------|---|
| a) | Reference to sampling procedure | : as per IS 4984-2016 ( Random Sampling Method) |
|----|---------------------------------|---|

### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Si. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Color of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	4.52
5		Strip depth (Max)	mm	0.2	0.17
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	2.00	1.22
8	7.2	Length of pipes (Min)	Mtr.	200.00	200.00
9	7.4	Mean Outside diameter	mm	75.00 - 75.50	75.12 - 75.34
10		Ovality (Max)	mm	1.60	0.18
11		Wall Thickness:	mm	5.60 - 6.30	5.70 - 5.98
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.80 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.46 %
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2825
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 29
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	948.85 - 950.78
19	8.9	Elongation at Break	%	≥ 350	418

**REVIEW OF DOCUMENTS:** Type Test Report No: PTC/TR/2019-20/0550, Dated 14.01.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Hajipur is reviewed.

### PART - D: REMARKS

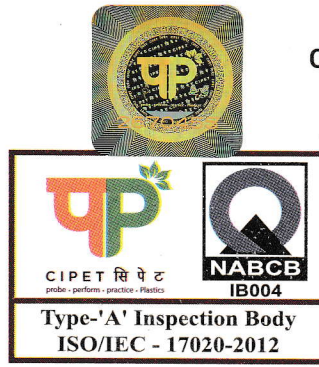
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- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

AUTHORISED SIGNATORY

*(Handwritten Signature)*

सेंट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग  
एण्ड टेक्नोलॉजी (सिपेट)

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Email : pdicipet@gmail.com

## INSPECTION DOCUMENT

**Issued to:** Executive Engineer P.H Div, Purnia.

**Manufacturer / Supplier Inspection Call Letter No. & Date:** SPPL/17/20-21, Date: 29.09.2020

**INSPECTION DOCUMENT AS PER IS: 4984-2016 (With latest amendment)**

**DOC. NO.:** CIPET/HJP/PDI/20-21/5033E

**DATE:** 10.10.2020

### PART - A: PARTICULARS OF STORES

- |                                       |   |   |
|---------------------------------------|---|---|
| a) Description of the items           | : | HDPE Pipes for Water Supply                         |
| b) Grade/Variety/Type/Size/Class etc. | : | PE 100, PN 10, DN 90 mm                             |
| c) Declared Value, if any             | : | Nil   |
| d) Quantity                           | : | 1828 Mtrs (150 Mtrs x 12 Coils + 28 Mtr x 01 Coil.) |
| e) Any Other Information (Batch No)   | : | 2020090800200,20200218002002,20200910002001         |

### PART - B: SUPPLEMENTARY INFORMATIONS

- |                                    |   |   |
|------------------------------------|---|---|
| a) Reference to sampling procedure | : | as per IS 4984-2016 ( Random Sampling Method) |
|------------------------------------|---|---|

### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Results of Witnessed Tests					
Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	6.2	Color of the pipes	-	Black with blue identification stripes	Confirmed
2	6.2.1	No. of strips (Min)	Nos.	03	04
3		Colour of strips	-	Blue	Confirmed
4		Strip width (Min)	mm	3.0	4.86
5		Strip depth (Max)	mm	0.2	0.16
6	7.1	Visual Appearance	-	Internal & External surface of pipes shall be smooth, clean free from grooving & other defects.	Satisfactory
7		Out of square of pipe end (max)	mm	3.00	1.30
8	7.2	Length of pipes (Min)	Mtr.	150.00	150.00
9	7.4	Mean Outside diameter	mm	90.00 - 90.60	90.10 - 90.26
10		Ovality (Max)	mm	1.80	1.28
11		Wall Thickness:	mm	6.70 - 7.50	6.78 - 7.08
12	8.1.1	I.P.C.R. Test of Pipe (48 hour at 80°C & 5.7 Mpa Induced stress)	Mpa	Shall not shows signs of Localized swelling, leakage or weeping & shall not burst during the test duration.	Confirmed
13	8.2	Longitudinal Reversion Test	%	± 3	(-) 1.90 %
14	8.3	Carbon Black Content	%	2.5 ± 0.5	2.51%
15		Carbon Black Dispersion	-	Dispersion of carbon black shall be satisfactory	Satisfactory
16	8.4	Melt Flow Rate	g/10 min	0.20 - 1.10	0.2780
17	8.5	Oxidation Induction Time	Min.	≥ 20	> 32
18	8.7	Density	kg/m <sup>3</sup>	930.00 - 960.00	950.0 - 950.66
19	8.9	Elongation at Break	%	≥ 350	450

**REVIEW OF DOCUMENTS:** Type Test Report No: PTC/TR/2019-20/0550, Dated 14.01.2020 (Tensile Strength for butt-fusion, Overall Migration I.P.C.R. of Joint, I.P.C.R. Test at 80°C for 1000 Hrs, I.P.C.R. Test at 80°C for 165 Hrs, I.P.C.R. Test at 27°C for 100 Hrs, Slow Crack growth rate) of CIPET Hajipur is reviewed.

### PART - D: REMARKS

1. This Inspection document shall not be reproduced except in full without the written approval of the PDI Cell at CIPET Head Office, Chennai.
2. These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
3. Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.

AUTHORISED SIGNATORY



CIPET सिपेट  
probe · perform · practice · Plastics

## सिपेट : सेन्टर फॉर स्किलिंग एण्ड टेक्निकल सपोर्ट (सी एस टी एस)

रसायन एवं पेट्रोसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
हेहल, राँची - 834005 (झारखण्ड)

### CIPET : CENTRE FOR SKILLING AND TECHNICAL SUPPORT (CSTS)

Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India  
Hehal, Ranchi - 834005 (Jharkhand)

मुख्यालय: गिण्डी, चेन्नै - 600 032

Head Office: Guindy, Chennai - 600 032



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वेबसाइट / Website: www.cipet.gov.in

#### ACTUAL ANNUAL PRODUCTION CAPACITY ASSESSMENT REPORT OF HDPE PIPES MANUFACTURING UNIT (ON THREE SHIFT BASIS)

Doc. No. CIPET/CSTS-RNC/CONSULTANCY/2020-21/ 878A

Dated- 01.02.2021

NAME OF THE FIRM : M/s Shiva Prints (P) Ltd, Tupudana Industrial Area, Hatia Ranchi 834 003

DATE OF ASSESSMENT : 30.01.2021 to 31.01.2021

SL NO.	EXTRUDER		Output declared by Manufacturer	Actual output obtained	Assessment team recommendation output	Manufacturers declared capacity in tonnage per annum Three shift basis	Assessment team recommendation on capacity in Tonnage per annum on three shift basis	Capacity Calculated based on following size.	Remarks
	Model No / Make	Category	Kg./hr.	Kg./hr.	Kg./hr.	(Kg/hr. X 22 X 25 X 12/1000) MT/Annum	MT/Annum	IS : 4984 :2016	
1	Single Screw Extruder, Model No: Speed-45/37, 75/200v, Make :- Windsor Machines Limited, P-157, CIT Scheme, VII-M, 1st Floor, Near Ultadanga VIP Road Crossing , Kolkata - 700 054	Screw Diameter (45mm)	240.00	215.93	216.00	1584	1426	PE 100 PN 10 DN 110mm SDR 13.6	Nil
2	Single Screw Extruder, Model No: Speed-/60-132, SM-250v, Make :- Windsor Machines Limited, P-157, CIT Scheme, VII-M, 1st Floor, Near Ultadanga VIP Road Crossing , Kolkata - 700 054	Screw Diameter (60mm)	550.00	495.07	495.00	3630	3267	PE 100 PN 10 DN 90mm SDR 13.6	Nil
<b>Total</b>							<b>4693 MT/Annum</b>		

Senior Technical Assistant  
CIPET :CSTS-Ranchi

Senior Technical Officer  
CIPET :CSTS-Ranchi

Camp at : M/s Shiva Prints (P) Ltd. Tupudana Industrial Area, Hatia Ranchi 834 003

CC : to  
1 M/s Shiva Prints (P) Ltd. Ranchi  
2 CIPET:CSTS, Ranchi

केन्द्र: अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बही, बालासोर, बैंगलुरु, भोपाल, भुवनेश्वर, चंद्रपुर, चेन्नै, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्ची, लखनऊ, मदुरै, मुरथल, मैसूरू, रायपुर, राँची, वलसाड, एवं विजयवाड़ा

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