



## ENVIRONMENT PRODUCT DECLARATION (EPD) FOR POWDER COATINGS







An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at: <u>www.environdec.com</u> Environment Product Declaration in accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021

Program Operator: The Indian Regional Hub of International EPD System

Geographical Scope: Global

EPD Registration Number: S-P-13444

Publication Date: 2024-04-22

Valid Until: 2029-04-21





## I. Program Information

The International Organization for Standardization (ISO) 14025 defines an Environmental Product Declaration (EPD) as a Type III declaration that quantifies environmental information about a product's life cycle. Based on ISO series 14040, the Life Cycle Assessment (LCA) forms the basis of the EPD approach. EPDs are primarily meant to assist business-to-business interactions, but they may also be useful to environmentally conscious consumers when purchasing goods or services.

Programme:	The International EPD® System
Declaration Holder:	Kansai Nerolac Paints Limited
Declaration Number:	S-P-13444
Declared Product:	Nerocoat - Epoxy Rebar Green
Address:	EPD International AB, Box 21060, SE-100 31 Stockholm, Sweden
Website:	www.envirodec.com; www.envirodecindia.com
Email:	Info@envirodec.com
Product Category Rules (PCR):	PCR 2019:14 Construction products, version 1.3.2
Verification and reference PCR:	CEN standard EN 15804 serves as the core Product Category Rules (PCR)
The PCR review was conducted by:	The Technical Committee of the International EPD System. See <u>www.envirodec.com</u> for list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariate <u>www.environdec.com/contact</u>

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

### □ EPD process verification

#### EPD verification

This declaration was independently verified in accordance with ISO 14025:2006 by:	Sunil Kumar SIPL Pvt Ltd sunil@sipl-sustainability.com
This life cycle assessment and EPD design was conducted by:	Suraj Shekhar, Sustainability Consultant, KoActs suraj@koacts.com; www.koacts.com
Address and Contact of the EPD Owner:	Kansai Nerolac Paints Limited 28th floor, A-wing, Marathon Futurex, N. M. Joshi Marg, Lower Parel, Mumbai- 400013, Maharashtra Contact Person: Ms. Varada Sawant Email: varadasawant@nerolac.com

Kansai Nerolac Paints Limited (KNPL) has the sole ownership, liability, and responsibility of the EPD. EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/ functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.





## **II. Company Description**

A subsidiary of Kansai Paints Co. Ltd, Japan; Kansai Nerolac Paints Limited (KNPL) is the second largest coating company in India and a market leader in Industrial Coatings. KNPL bespeaks quality and manufacturing excellence which makes it a preferred choice for a growing and ever-evolving customer base.

The company's manufacturing footprint spans eight plants across India located at Jainpur (UP), Lote (Maharashtra), Bawal (Haryana), Hosur (Tamil Nadu), Goindwal Sahib (Punjab), Kakoda (Goa), Sarigam (Gujarat) and Sayakha (Gujarat), all of which are strategically located near key OEMs, thus lending the company a strong competitive edge. It has a state-of-the-art R&D facility in Mumbai. It also has 4 subsidiary companies of which 3 are international subsidiaries with operations in Nepal, Sri Lanka, and Bangladesh. In addition, KNPL has a well-established network of depots spread across key markets.

KNPL's product proposition is designed to cater to the evolving needs of customers in the Decorative and Industrial segments. KNPL's technological leadership in the powder coatings segment has helped the company become a market leader serving a wide range of industries such as white goods, furniture, auto ancillaries, and electricals. The company's collaboration with customers in the auto industry has enabled it to convert a range of liquid coatings to powder coatings and develop super functionality powder which offers high abrasion resistance for accessories to enhance the durability of coating by 2x times.

The major KNPL plants are certified with ISO 14001, ISO 9001, ISO 45001, and IAFT 16949 certification. KNPL is the recipient of the Golden Peacock & Greentech awards for Environment Management. It has also received a Sustainability award from Frost & Sullivan and customers like Tata, Maruti, Honda, and Mahindra & Mahindra.

KNPL has achieved top ESG rankings in various assessments, including the S&P Corporate Sustainability Assessment with a rating achievement in the top 10% globally within the Chemical Industry Group and rated in the Top Quartile in the FTSE4Good Index. In the CRISIL ESG Rating, KNPL was featured in the leadership category and amongst the top 14 out of 575+ companies and rated #1 in the Paint Sector.

At an organizational level, KNPL has set carbon emissions reduction targets for 2030 to limit global warming below 1.5 degrees celsius with a validation from the Science Based Targets initiative (SBTi). KNPL has adopted the Task Force on Climate-related Financial Disclosures (TCFD) framework for risk assessment due to climate change. It has sustainability deeply ingrained in its business objectives, the focus is on prioritizing protecting and nurturing its triple bottom line of People, Planet, and Profit by adopting sustainable growth practices. The company has identified key materiality areas such as decarbonization, resource use, quality of life, diversity, and governance to drive its sustainability strategy.

## **III. Product Description**

Powder Coatings are a blend of resins, curing agents, and pigments, which are melt-mixed (extruded) and pulverized into finely divided particles. There are two basic classifications of powder coating materials. They are "thermoplastic" and "thermoset" powders.

<u>Thermoplastic powders</u>: Thermoplastic powders are generally applied to a surface that has been preheated to a temperature significantly higher than the melting point of the powder. It melts and flows when heat is applied but continues to have the



Figure 1: Nerocoat - Epoxy Rebar Green





same chemical composition when it solidifies on cooling. Nylon powder coating materials are the most used thermoplastic powders. Thermoplastic coatings are known for their wear and chemical resistance.

<u>Thermoset powders</u>: Thermoset powders are 100% solvent-less and are generally applied using electrostatic spray equipment that provides each powder particle with a small electric charge, which in turn sticks to the earthed substrate. Thermoset powder coating systems offer broad formulation flexibility. They are very durable and are widely used.

#### Table 1: Nerocoat - Epoxy Rebar Green Product Technical Data

Sr. No.	Product Description	Product Properties
1.	<b>Nerocoat - Epoxy Rebar Green</b> is an epoxy coating for steel reinforcing bars that complies with the requirements of standard specifications for epoxy-coated steel reinforcing bars (refer to Figure 1).	Colour: Green Binder System: Epoxy-based Particle size distribution: <63 µm = 78-85% <125 µm = 98-100% Film thickness: 180 – 280 µm

Note: For more technical data please contact the EPD owner.

#### Table 2: Product Content Declaration

Sr. No.	Product Name	Material Content of the Product
1.	Nerocoat - Epoxy Rebar Green	Resin Flakes: 800g Pigments & Extenders: 150g Additives: 50g

## **IV. Manufacturing Process**

The manufacturing process for powder coating is depicted in Figure 2.

The raw materials (resin, hardener, pigments, and additives) in powder/ flake form are weighed and added in a premixer for mechanical blending. The mixture from premixer, known as 'Premix' is fed into the extruder. The extruder ensures uniform dispersion of the material at elevated temperatures (upto 100 °C) and converts it into paste form. The paste coming out of the extruder is squeezed between two rollers. Rollers are cooled by using chilled water circulation inside the rollers. The paste on squeezing forms a thin uniform film and is laid on a conveyor belt for cooling. The cooled film is crushed into small flakes of size approximately 1 sq. cm. by the pre-breaker. These flakes are charged into a double-cone blender (DCM). Small quantity of additive is added to the flakes and blending is done for proper mixing of additive. Blended flakes are then fed into a micro pulverizer (air classifying mill) which grinds the flakes into fine powder. The powder is then sieved and packed for dispatch. The micro pulverizers are provided with dust collectors and blowers to prevent dust pollution.



Figure 2: Powder Coating - Process Flow Diagram





## V. Life Cycle Assessment Information

This assessment aims to communicate the environmental aspects of products objectively and transparently according to their life cycle stages for developing a Type III - Environmental Product Declaration (EPD) that is compliant with the ISO 14025 and ISO 14040 series of standards. The results of the present LCA study conform to the Product Category Rules (PCR) for construction products 2019:14/ version 1.3.2. PCR facilitates the identification of possible environmental impacts at each stage of the product's life cycle and provides scope for the development of the products **Table 3: Life Cycle Assessment Scope** 

• • •	
Geographical scope:	Giodal
Declared unit:	1 Kg
Time representativeness:	Primary data from the manufacturing site, suppliers, and the electricity mix were collected for the period starting from April 2022 to March 2023.
Database(s) and LCA software used:	Ecoinvent v3.9 (allocation, cut-off by classification) database and SimaPro v9.5 software have been used for the LCA calculations. LCA methods used are EN 15804: A2 compliant, based on EF 3.0.
Description of system boundaries	Cradle to gate with modules C1–C4 and module D (A1–A5 + C + D).
Data quality and data collection:	According to EN 15804:2012+A2:2019, based on EF 3.0, specific data was used for module A3 (Processes the manufacturer has influence over) and was gathered from KNPL's Lote plant. The data includes actual product weights, amounts of raw materials used, product content, energy consumption, transportation distances, water consumption, and waste generation. The infrastructure/capital goods are excluded in the LCA
Allocation of co-products or waste:	Allocation has not been applied.
Cut-off rules:	A minimum of 99% of the total mass, energy, and environmental relevance data of the system was considered. Processes/ materials contributing to less than 1% of the environmental impact have not been considered. However, efforts have been made to include the majority of input materials and their transportation. No known flows are deliberately excluded from this LCA.

The life cycle of a product is divided into life cycle stages, information modules, and the requirements for cradle-to-grave type of EPD. **Table 4** provides an overview of the life cycle stages. The components in a life cycle stage can be described as follows:

#### 1. Product Stage (A):

- a. <u>Raw Material Supply (A1):</u> Extraction and processing of raw materials like pigments, water, additives, solvents, etc. Generation of electricity and heat from primary energy resources.
- b. <u>Transportation (A2)</u>: Transportation of Raw materials to the manufacturing plant where the respective paint will be manufactured.
- c. <u>Manufacturing (A3)</u>: This stage includes the manufacture of products and packaging. It has considered all the energy consumption and waste generated in the production plant. The electricity data used for the modelling were taken from Ecoinvent. Electricity mix was of North India- 80% coal, 2.5 % nuclear, and 17.5 % renewable sources





## For 1 kWh of Electricity the GWP-GHG value is 1.3 Kg CO<sub>2</sub> eq.

## 2. Construction stage (A):

- a. <u>Transportation (A4)</u>: This stage includes transport from the production gate to the construction site where the product shall be installed. In this stage assumption was made regarding transportation, considering that finished goods are supplied to the supplier located 100 km away in a 10-tyre truck with a capacity of 16 to 32 tons.
- b. <u>Installation (A5)</u>: During the final installation, any energy or water use will come under this module.

## 3. End-of-life stage (C):

- a. <u>Demolition (C1)</u>: It involves the removal of paint; as manual removal was considered in this assessment; no energy or material input was required.
- b. <u>Transportation (C2)</u>: Includes the transport of the waste paint to final waste treatment. In this stage, the below assumptions were made on the collection process of dry mass of paint which is mixed with the building waste.
  - i. There is no reuse, recycling, or energy recovery at this stage.
  - ii. It is assumed that the dry mass of paint is disposed of in a landfill.
  - iii. Similarly, it is assumed that a 10-tyre truck with an average load of 7.5-10 MT is used for transportation. The average distance to the landfill site was considered as 50 km.
- c. <u>Reuse, recovery, and/or recycling (C3)</u>: Includes all activities regarding reuse, recovery, and/or recycling after transportation.
- d. <u>Disposal (C4)</u>: Includes disposal, i.e., waste handling that does not give a useful product.
- 4. Resource recovery stage (D), if relevant: Resource recovery is the process of recovering materials or energy from waste for reuse.

#### Table 4: System boundary, Life cycle stages, modules declared and geography scope.

	Product Stage Constructior Stage				ruction age	Use Stage						End of Life Stage				Resource Recovery Stage	
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction Demolition	Transport	Waste processing	Disposal	Recycling potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	х	×	х	х	х	ND	ND	ND	ND	ND	ND	ND	х	х	х	x	х
Geography	IN	IN	IN	IN	IN	-	-	-	-	-	-	-	IN	IN	IN	IN	IN
Specific data used	Manuf da	acturing ata taker	Plant 1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-

X- Declared modules, ND- Not declared modules.





## VI.Environmental Performance:

Results of the LCA - environmental impacts according to EN 15804+A2: 1Kg of "**Nerocoat - Epoxy Rebar Green**" product.

#### **Table 5: Core Environmental Impacts**

Impact category	Unit	Product Stage	Construct	tion Stage		Resource Recovery Stage			
		A1-A3	A4	A5	C1	C2	C3	C4	D
GWP	kg CO₂ eq	4.30E+00	5.43E-02	0.00E+00	0.00E+00	2.72E-02	0.00E+00	2.63E-03	0.00E+00
GWP - Biogenic	kg CO₂ eq	1.14E-02	2.71E-05	0.00E+00	0.00E+00	1.35E-05	0.00E+00	6.30E-06	0.00E+00
GWP- LU & LU change	kg CO₂ eq	3.51E-03	3.37E-05	0.00E+00	0.00E+00	1.69E-05	0.00E+00	2.49E-06	0.00E+00
GWP - Total	kg CO₂ eq	4.31E+00	5.44E-02	0.00E+00	0.00E+00	2.72E-02	0.00E+00	2.64E-03	0.00E+00
ODP	kg CFC11 eq	5.57E-07	1.08E-08	0.00E+00	0.00E+00	5.41E-09	0.00E+00	1.07E-09	0.00E+00
AP	mol H+ eq	2.17E-02	1.64E-04	0.00E+00	0.00E+00	8.22E-05	0.00E+00	2.48E-05	0.00E+00
EP- FW	kg P eq	1.16E-03	5.44E-06	0.00E+00	0.00E+00	2.72E-06	0.00E+00	2.41E-07	0.00E+00
EP - marine	kg N eq	3.85E-03	3.08E-05	0.00E+00	0.00E+00	1.54E-05	0.00E+00	8.61E-06	0.00E+00
EP - terrestrial	mol N eq	3.96E-02	3.34E-04	0.00E+00	0.00E+00	1.67E-04	0.00E+00	9.42E-05	0.00E+00
POCP	kg NMVOC eq	1.51E-02	1.25E-04	0.00E+00	0.00E+00	6.24E-05	0.00E+00	2.74E-05	0.00E+00
ADP non-fossil	kg Sb eq	5.32E-05	3.22E-07	0.00E+00	0.00E+00	1.61E-07	0.00E+00	6.01E-09	0.00E+00
ADP fossil fuels	MJ	7.45E+01	7.77E-01	0.00E+00	0.00E+00	3.89E-01	0.00E+00	7.35E-02	0.00E+00
WDP	m <sup>3</sup> W eq. Dep	2.05E+00	3.39E-03	0.00E+00	0.00E+00	1.69E-03	0.00E+00	3.31E-03	0.00E+00
GWP-GHG	kg CO₂ eq	4.22E+00	5.39E-02	0.00E+00	0.00E+00	2.69E-02	0.00E+00	2.61E-03	0.00E+00

#### Table 6: Additional Environmental Impacts

Impact category	Unit	Product Stage	Construc	tion Stage		Resource Recovery Stage			
		A1-A3	A4	A5	C1	C2	C3	C4	D
РМ	Disease inc.	2.40E-07	3.19E-09	0.00E+00	0.00E+00	1.59E-09	0.00E+00	4.99E-10	0.00E+00
IRP	kBq U-235 eq	2.59E-01	3.56E-03	0.00E+00	0.00E+00	1.78E-03	0.00E+00	3.27E-04	0.00E+00
ETP, FW	CTUe	1.94E+02	7.73E-01	0.00E+00	0.00E+00	3.86E-01	0.00E+00	4.64E-02	0.00E+00
HTP, c	CTUh	2.69E-09	1.30E-11	0.00E+00	0.00E+00	6.50E-12	0.00E+00	6.11E-13	0.00E+00
HTP, nc	CTUh	3.48E-09	2.31E-11	0.00E+00	0.00E+00	1.15E-11	0.00E+00	1.06E-12	0.00E+00

#### Table 7: Stage-wise environmental impact of resource use

Impact category	Unit	Product Stage	Constr Sta	uction age		Resource Recovery Stage			
		A1-A3	A4	A5	C1	C2	C3	C4	D
LURI	Dimensionless	2.23E+01	3.74E-01	0.00E+00	0.00E+00	1.87E-01	0.00E+00	1.54E-01	0.00E+00
PERE	MJ	3.02E+00	1.27E-02	0.00E+00	0.00E+00	6.34E-03	0.00E+00	6.27E-04	0.00E+00
PEREM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERET	MJ	3.02E+00	1.27E-02	0.00E+00	0.00E+00	6.34E-03	0.00E+00	6.27E-04	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRE	MJ	8.06E+01	8.27E-01	0.00E+00	0.00E+00	4.14E-01	0.00E+00	7.83E-02	0.00E+00

<sup>&</sup>lt;sup>1</sup> The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The use of the results of modules A1-A3 (A1-A5 for services) without considering the results of module C is not encouraged.





PENRT	MJ	8.06E+01	8.27E-01	0.00E+00	0.00E+00	4.14E-01	0.00E+00	7.83E-02	0.00E+00
SM	Kg	0.00E+00							
RSF	MJ	0.00E+00							
NRSF	MJ	0.00E+00							
FW	m³	5.03E-02	9.71E-05	0.00E+00	0.00E+00	4.86E-05	0.00E+00	7.83E-05	0.00E+00

#### Table 8: Environmental impact of waste categories

Impact category	Unit	Product Stage	Construct	tion Stage		Resource Recovery Stage			
		A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste disposed	Kg	6.95E-05	2.15E-06	0.00E+00	0.00E+00	1.08E-06	0.00E+00	1.11E-07	0.00E+00
Non-Hazardous waste disposed	Kg	1.35E+00	2.51E-02	0.00E+00	0.00E+00	1.25E-02	0.00E+00	5.00E-01	0.00E+00
Radioactive waste disposed	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

#### Table 9: Environmental impact of output flows

Impact category	Unit	Product Stage	Construct	tion Stage		Resource Recovery Stage			
		A1-A3	A4	A5	C1	C2	C3	C4	D
Components for reuse	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Electrical Energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Thermal Energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

#### Table 10: Biogenic Carbon Content According to EN 15804+A2: 2019

Biogenic Carbon Content	Unit	Quantity
Biogenic Carbon Content in product	Kg C	0.0032
Biogenic Carbon Content in Packaging	Kg C	0.0000

#### **Table 11: Packaging Contents**

Product Component	Weight, Kg
Plastic Bags	0.0032
Cardboard Box	0.0000

#### VII. Interpretation of Results

The core environmental impact in **Table 5** shows that the GWP-Total of the product '**Nerocoat - Epoxy Rebar Green'** is **4.4 Kg CO<sub>2</sub> equivalent**. The raw materials contributing to the GWP-Total are **Epoxy resin 54.9%**, **Kukdo/ Curing Agent 18.3%**, **Titanium dioxide 11.8%**, and other chemicals like Barytes JKB BS 222, Iron oxide, etc., are in the range of 0.5-3%. The End-of-Life stage has a relatively lower impact due to its low energy intensity.





## **ANNEXURE I**

Acronyms		
Impact Category	Abbreviation	
GWP - fossil fuels	GWP-fossil	
Global Warming Potential - Biogenic	GWP-biogenic	
Global Warming Potential - Land Use and Land Use Change	GWP-luluc	
Depletion Potential of the Stratospheric Ozone Layer	ODP	
Acidification Potential	AP	
Eutrophication potential- FW	EP-FW	
Eutrophication potential - Marine	EP-marine	
Eutrophication potential - Terrestrial	EP-terrestrial	
Formation Potential of Tropospheric Ozone	POCP	
Ab iotic Depletion for Non-Fossil Resources	ADP-minerals&metals	
Abiotic Depletion for Fossil Resources Potential	ADP-fossil	
Water (User) Deprivation Potential	WDP	
Land use related impacts	LURI	
Use of Renewable Primary Energy - Excluding Raw Materials	PERE	
Use of Renewable Primary Energy - Used as Raw Materials	PERM	
Total Use of Renewable Primary Energy	PERT	
Use of Non-Renewable Primary Energy - Excluding Raw Materials	PENRE	
Use of Non-Renewable Primary Energy - Used as Raw Materials	PENRM	
Total Use of Non-Renewable Primary Energy Resources	PENRT	
Use of Secondry Material	SM	
Use of non-renewable secondary fuels	RSF	
Use of Non-Renewable secondary fuels	NRSF	
Use of Net Fresh Water	FW	
Environmental Product Declaration	EPD	
Life cycle assessment	LCA	
Product category rule	PCR	
Life cycle inventory	LCI	
Global	GLO	





## REFERENCES

ISO 14020:2000

Environmental labels and declarations — General principles

#### ISO 14040:2006

Environmental management — Life cycle assessment — Principles and framework

**ISO 14044:2006** Environmental management — Life cycle assessment — Requirements and guidelines

**ISO 14025:2006** Environmental labels and declarations — Type III environmental declarations — Principles and procedures

**EN 15804:2012+A2:2019** Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction product

The International EPD® System www.environdec.com

**The International EPD® System** The General Programme Instructions v3.01

The International EPD® System PCR 2019:14 Construction products v1.3.2 (EN 15804:A2)

Ecoinvent 3.9 www.ecoinvent.org

SimaPro LCA Software www.simapro.com

Kansai Nerolac Paints Limited

www.nerolac.com





# **Third Party Verifier**

Sunil Kumar SimaPro partners for India & Sri Lanka, SIPL Pvt Ltd <u>https://www.sipl-sustainability.com/</u> sunil@sipl-sustainability.com



# LCA and EPD Consultant

KoActs Flat No 10, 3rd flr, 'Avadhpuri' Hsg Soc, Opp. Karishma Soc, Near Karishma Traffic Signal , 127-Karve Road, Kothrud, Pune- 411029 <u>suraj@koacts.com; www.koacts.com</u>



# **Owner of the EPD**

**Kansai Nerolac Paints Limited,** 28th Floor, A - Wing, Marathon Futurex, Mafatlal Mills Compound, N M Joshi Marg, Area: Lower Parel, City: Mumbai, Pin: 400013

