



## **DEESAWALA ELASTOMERIC BRIDGE BEARING PAD & STRIP SEAL EXPANSION JOINT (Confirming to IRC 83 & MORTH Standards)**

An Introduction to Deesawala Rubber Elastomeric bearings, Pot-PTFE bearings, Slab seal joints, strip Seal, compression seal joints, modular joints, Building Expansion joints, Geo synthetics as manufacturer and supplier of Building Expansion joints.(Empanelled with MORTH for Elastomeric Bearings and Pot-PTFE Bearings).

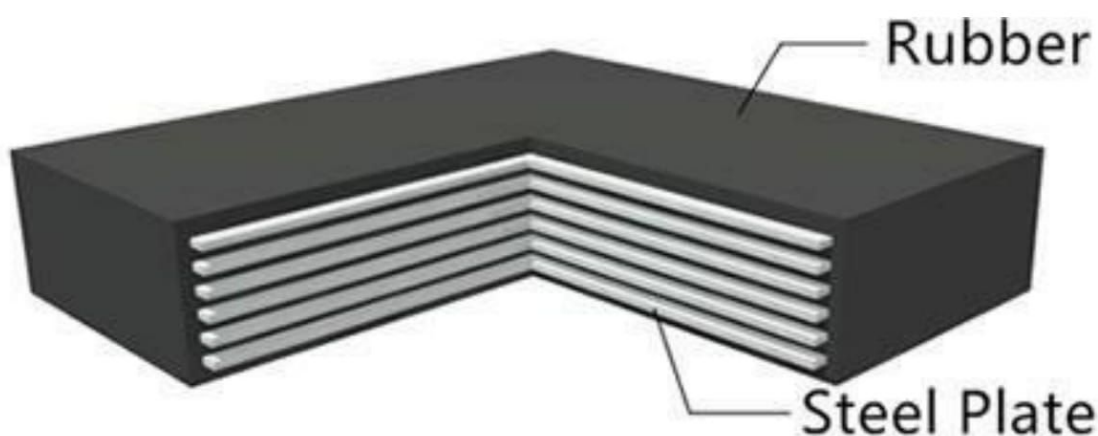
Deesawala Rubber Industries an ISO 9001-2015 certified company takes Pleasure in introducing as leading manufacturer / Authorized supplier of foreign manufacturer of Elastomeric Bearings Pads ,Slab seal joints ,strip seal joints ,Compression seal joints ,Modular joints Pot PTFE bearings and Building joints, Geo synthetics in India .For product information ,We request you to visit our website [www.deesawalarubber.com](http://www.deesawalarubber.com)

The products are manufactured strictly in accordance with relevant IRC codes/ specifications.

# DEESAWALA ELASTOMERIC BEARING PAD & STRIP SEAL EXPANSION JOINTS



The Elastomeric Bearings and Pot-Ptfe Bearings manufactured by us are as per Ministry of Road Transport and Highways Govt. of India vide the present turnover of the company is approx 30 Crores annually and this has been achieved in span of 13 Years since its inception in the Year 1995. The factory is located at Hyderabad INDIA. We are equipped with "state of the art" advanced Material Testing Laboratory for testing of material and finished products to ensure quality as per relevant specifications/IRC Codes. We have the latest plant and machinery for manufacture of these products and dedicated work force of 150 Employees which includes Engineers, Technicians, etc



We are in the process of introducing new products to meet increased industry demand and meet new challenges. Should you have any Technical or Financial Enquiry, Our dedicated team of Engineers and Professionals will immediately respond to your Technical or any other enquiry from Hyderabad office.

## ■ Projects Executed Till Date

S.No	Product	No. of Projects	No. of Items
01	ELASTOMERIC BRIDGE BEARING PADS	253	13242 No's
02	STRIP SEAL EXPANSION JOINTS	104	4800 Mtrs

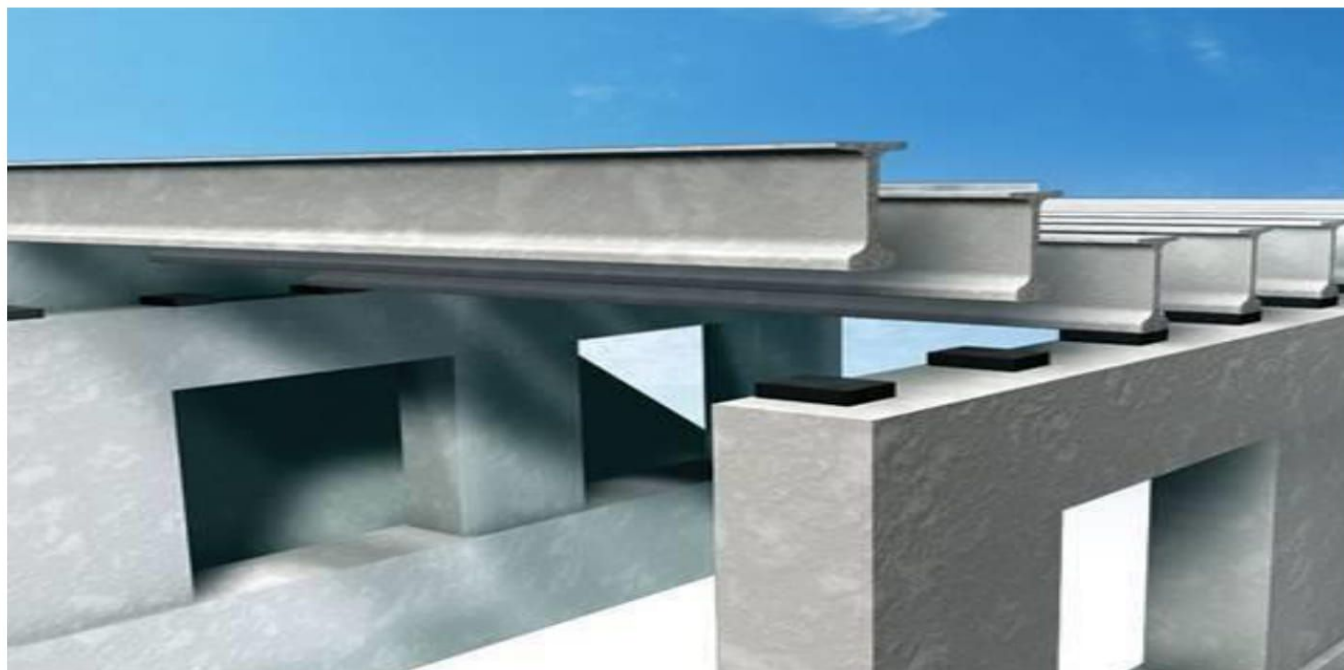


# DEESAWALA ELASTOMERIC BEARING PAD & STRIP SEAL EXPANSION JOINTS



## ■ Some of our Projects Executed

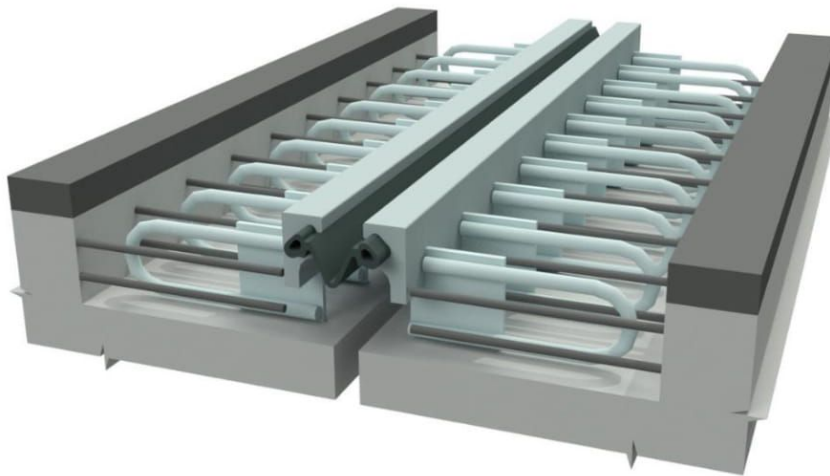
Client	Size	QTY	Project	Result
Madhucon Projects Ltd	Neoprine Bridge bearings 850 length x 450 width x 80mm thk	60	Peddavagu @km 16.15 earth work Excavation and formatting embankment from km 15000 to km 15985 and from km 16325 to km17000 flood flow canal from SR SP	O.K
	1150 length x 580 width x 100mm thk	120		
MEIL	Neoprine Bridge bearings 500 L x 300 W x 64mm thk	268	Neoprine Bridge bearings 500 L x 300 W x 64mm thk	O.K
Navayuga Engg Ltd	Neoprine Bridge bearings 400 L x 300 W x 80mm thk	120	Const of gauge conversion of villipuram	O.K
Progressive Construction	Neoprine Bridge bearings 500 L x 320 W x 65mm thk	288	Const of bridge over jalandar, panipat NH-1 Road	O.K
Dilip Buildcon	Neoprene Bearing Pads 600 x 600 x 10	800	NHAI – Bangalore Highway	O.K
TATA Projects	Neoprene Bearing Pads 500 x 320 x 80	58	Machavarama AP Highway	O.K
Katerra India Ltd.	Neoprene Bearing Various Sizes	680	Bangalore Project	O.K
J Kumar Projects	Neoprene Bearing 500 x 320 x 65	200	Andheri Airport Project	O.K



## Strip Seal Expansion Joint

Strip Seal Expansion Joint: is a mechanical device adapted for sealing an elongated gap formed between two adjacent road slab sections by providing a continuous support for vehicles crossing the gap while allowing the desired temperature responsive movement of the road slab sections. A single elastomeric neoprene rubber strip is secured to the adjacent roads sections on either side of the gap through heavy duty edge beams under a specially designed profile.

Strip Seal Expansion Joint system consists of an elastomeric gland mechanically locked between two steel edge members providing a superior watertight sealing system. The rugged design of the Strip Seal Expansion Joint can easily accommodate the high loads of vehicular traffic while effectively sealing expansion joints in bridges and structures with movements up to range up to 80 mm (+/- 40 mm).



Strip Seal Expansion Joints can be manufactured to accommodate a variety of field configurations along with multidirectional movements.

These Expansion Joints has been engineered so that the neoprene seal can be inserted either prior to or after the securing of the steel shapes to the superstructure. Machined Steel shapes maximize seal insatiability and minimize manufacturing tolerance associated with overall Steel shape manufacture.

### ■ Functions of Strip Seal Elastomeric Joint:-

- Permits the expansion/contraction of the span to which it is fixed without causing any distress or vibration to the structure
- They cause no inconvenience or hazard to the road user and offer good riding comfort
- Should be capable of withstanding the traffic loads including dynamic effects
- Surface exposed to traffic should be skid free and resistant to polishing
- Ensure accessibility for inspections and easy maintenance with all parts vulnerable to wear being easily replaceable



## **DESIGN OF THE ELASTOMERIC BEARING**

(Plan Dimension, Arrangement of Steel laminates & Layers of Layers of Elastomer)

- ❖ The overall length divided by overall width shall be Less than (or) equivalent to two.
- ❖ The overall thickness shall be Five times lesser than (or) Equivalent to overall width; (or)
- ❖ The overall thickness shall be Greater than (or) equivalent to overall width by ten.
- ❖ If thickness of steel laminate is 3 mm, Then thickness of elastomer layer shall be either 8 (or) 10mm
- ❖ If thickness of steel laminate is 4 mm, Then thickness of elastomer layer shall be either 12 mm.
- ❖ If thickness of steel laminate is 6 mm, Then thickness of elastomer layer shall be either 16 mm.
- ❖ The thickness of the outer layer of elastomer (Top/Bottom) shall be Half the thickness of middle layer of elastomer, Subject to maximum of 6 mm, for any size.
- ❖ The side cover shall be 6 mm for all Bearings.
- ❖ Shape factor shall be greater than 6 and lesser than or equivalent to 12.

### **Plan Dimension and Technical Data of the Bearing**

Code Reference	Dimension	Thickness		Design Load	
	Overall L X W	Maximum	Minimum	Maximum	Minimum
RSI 001	250 mm X 160 mm	32 mm	16 mm	350 kN	70 kN
RSI 002	320 mm X 160 mm	32 mm	16 mm	460 kN	90 kN
RSI 003	320 mm X 200 mm	40 mm	24 mm	580 kN	120 kN
RSI 004	400 mm X 200 mm	40 mm	24 mm	730 kN	150 kN
RSI 005	400 mm X 250 mm	48/50 mm	24/30 mm	920 kN	180 kN
RSI 006	500 mm X 250 mm	48/50 mm	24/30 mm	1160 kN	230 kN
RSI 007	500 mm X 320 mm	90 mm	48 mm	1500 kN	300 kN
RSI 008	630 mm X 220 mm	65 mm	48 mm	1900 kN	380 kN
RSI 009	630 mm X 400 mm	84 mm	48 mm	2400 kN	480 kN
RSI 010	800 mm X 400 mm	84 mm	48 mm	3100 kN	600 kN

- ❖ 10 kN IS EQUIVALENT TO 1 M. T.
- ❖ DESIGN LOAD OF THE BEARING IS EQUIVALENT TO 10 M Pa
- ❖ SHEAR MODULUS OF THE BEARING SHALL BE BETWEEN 0.8 & 1.2 M Pa
- ❖ ULTIMATE COMPRESSIVE STRENGTH OF THE BEARING SHALL BE MORE THAN 60 M Pa
- ❖ DIMENSION NOT MENTION NOT MENTIONED ABOVE CAN ALSO BE DESIGNED AS PER REQUIREMENT

**Any Size = as Per Order can be made**

### **Physical Properties of the Elastomer used in Bearing**

No.	Characteristics	Unit	Values	Testing Std
1	SHORE Hardness	Shore A	55 to 65	IS : 3400 (Part II)
2	Tensile Strength	M Pa	17 Minimum	IS : 3400 (Part I)
3	Elongation at break	%	400 Minimum	IS : 3400 (Part I)
4	Compression set	%	35 Maximum	IS : 3400 (Part X)
5	Accelerated Ageing	-	-	IS : 3400 (Part IV)
5(a)	Change in Hardness	Shore A	+15	
5(b)	Change in Tensile strength	%	-15	
5(c)	Change in Elongation	%	-30	
6	Adhesion Strength	kN/m	7 Minimum	IS : 3400 (Part XIV)
7	Resistance to Ozone	-	No defect	IS : 3400 (Part XX)



# DEESAWALA ELASTOMERIC BEARING PAD & STRIP SEAL EXPANSION JOINTS



An ISO 9001-2015 certified Company

## Test Report

Order No  
Description  
Size & Quantity  
Lot No  
Testing Standard

Report No: DEESA/ CLR/RS/251.  
: N/A  
: Elastomeric Rubber Bearing Pads  
: Sample Pad  
: DEESA/Chloroprene/RS/4-5/20.  
: IRC 83 (PART II)

S.No	Tests	Test Procedure	Permissible Limits as per BS:2752/1990 Grade -C70	Test Results
1	<b>Physical Properties Before Ageing</b>			
	Hardness	BS 903, Part A26	70 <sup>+5/-4</sup> IRHD	68 - 72Shore A
	Tensile Strength MPa	BS 903, Part A2 Type 2	13.0 MPa (Min)	28.97 MPa
	Elongation at Break in %		200 % (Min)	215%
2	Compression Set at 70°C for 24-2/+0 Hors	BS 903, Part A2, Type 1	25.0% (Max)	8.45%
3	Resistance to Liquids Volume Change (%) after immersion in Liquid B & 40±1°C for 22±0.25 Hours	BS 903, Part A16	-0/+70%	+43.34%
4	<b>Physical Properties - After Ageing @ 70°C±1°C for 7 Days according BS 903 Part A19.</b>			
	Change in Hardness	BS 903 Part A26.	-0 / +7	+2
	Change in Tensile Strength	BS 903 Part A2 Type 2.	-12.0 % Max	-4.30 %
	Change in Elongation at Break		-20.0 % Max	-8.50%
5	Resistance to Low Temperature in -30°C	BS 903 Part A13 Method A	Not Exceed 70 MPa	42.75MPa
6	Adhesion to Corrosion of Metals @70±1°C for 166±2/-0 Hrs	BS 903 Part A37 Method A	shall be free from corrosion of pitting of the metals and the vulcanizates shallnot adhere to the metal surface or show any sign of liquid exudation, discoloration of the metal surfaces shall not be considered cause for rejection.	Tested and found ok.
7	Marking			Size & Qty

The above tests are carried out asper IS:5382 Grade -C70 and found OK.

for Deesawala Rubber Industries

QC Department

**DEESAWALA ELASTOMERIC  
BEARING PAD & STRIP  
SEAL EXPANSION JOINTS**



■ **Certifications**

# Certificate of Registration

*This is to certify that compliance of Quality Management System of*

## DEESAWALA RUBBER INDUSTRIES

Office: 5-5-65/S-12A, S.A Trade Centre, Ranigunj 'X' Road,  
Secunderabad-500 003, Telangana, India.

Factory: Plot No: 10/1, Road No.D, IDA Balanagar,  
Hyderabad-500 037, Telangana, India.

*Has been assessed and approved to the requirements of*

### ISO 9001 : 2015

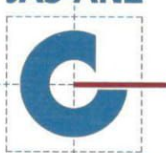
*For the scope of activities :*

**Manufacture of Rubber Moulded Components,  
Extruded Profiles and Gaskets**

Certificate No.	: RQ91/JA/RE/1902	Issue Date	: 21.08.2019
JAS-ANZ Accreditation No	: M4430310IC	Valid Date	: 20.08.2020



**JAS-ANZ**



[www.jas-anz.org/register](http://www.jas-anz.org/register)



Quality Seal

For and on behalf of Quest Certification (P) Ltd

Head of Certification

Certification is valid till (20.08.2022), subject to the successful completion of surveillance audit on 20.08.2020 and 20.08.2021  
Upon successful completion of surveillance audit, a new certificate with extended validity will be issued.

The Validity of this Certificate can be verified from [www.questcertification.com](http://www.questcertification.com)

The Registration does not assure the quality of yields under the firm's production / services

**Quest Certification (P) Ltd**

Plot No. 29, 1st Main Road, Sahari-Nagar Ext. 3rd Cross Street, Mugalbakam Chennai - 600 175 Tamilnadu India



**DEESAWALA ELASTOMERIC  
BEARING PAD & STRIP  
SEAL EXPANSION JOINTS**



Page 1 of 3



**राष्ट्रीय लघु उद्योग निगम लिमिटेड**  
**THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED**

Sr. No. **80111**

(A Government of India Enterprise)

S.No. BAL-0000562

Branch Office 6-3-144 & 144/1, 3rd Floor, Jahanara Kareem Complex, Balanagar,  
Hyderabad – 500 037

Ph : 040-23777880/881

Fax : 040-23777879

**GOVERNMENT PURCHASE ENLISTMENT CERTIFICATE**

Email : bobalanagar@nsic.co.in

Website : www.nsic.co.in

Renewal Certificate (Valid From 27/01/2019 to 26/01/2021)

Ref.No NSIC/GP/BAL/2016/49674

Date: 26/02/2019

**M/s. DEESAWALA RUBBER INDUSTRIES**  
5-5-65/S-12A, S.A. Trade Centre, Ranigunj 'X' Road,  
Secunderabad  
HYDERABAD,  
TELANGANA- 500003

**Factory Address:**

1 .Plot No.10/1, Road No.D, IDA, Balanagar,  
Hyderabad  
Medchal, TELANGANA -500037

**Name of the Partners**

1. Shri. Hunded. N. Deeswala

2. Shri. Shabber Deesawala

**Constitution of the firm-** Partnership

UAM TS09B0018722

**Enterprise Social Class:**  
GENERAL

**GOVERNMENT PURCHASE REGISTRATION NO: NSIC/GP/BAL/2016/0025078**

**Monetary Limit:** ₹ 622 lakhs ( ₹ Six Hundred Twenty Two Lakh Only)

**TURNOVER (Rupees in Lakhs)**

Financial Year	Annual Turnover
2015-16	583.26
2016-17	648.09
2017-18	1242.52
<b>Monetary Limit</b>	622

MSEs registered with NSIC are exempted from deposit of Earnest Money irrespective of value of Monetary Limit.

Your name has been registered as a MSE Unit eligible for participation in the **Central Government Store Purchase Programme** as per the **Single Point Registration Scheme** for the following Item(s)/Store (s)/Service(s).

Name of the Store(s)/ Service(s)	Specification(s)	Qualitative Capacity	Quantitative Capacity P.A.
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"As per List Attached" (5 item only )



M/s. DEESAWALA RUBBER INDUSTRIES



Authenticity of the certificate can be checked through the web portal: [www.nsicsonline.com](http://www.nsicsonline.com)

(P.R. Chaganti)  
Senior Branch Manager  
The National Small Industries Corporation Ltd.  
(A Government of India Enterprise)  
D.No. 6-3-144, 144/1, 3rd Floor,  
Jahanara Kareem Complex, Hyderabad - 500 037  
Authorized Signatory

CIN : U74140DL1955GOI002481

Conditions overleaf  
26/02/2019



**DEESAWALA ELASTOMERIC  
BEARING PAD & STRIP  
SEAL EXPANSION JOINTS**



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**राष्ट्रीय लघु उद्योग निगम लिमिटेड**  
**THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED**

(A Government of India Enterprise)

S.No. ~~FA/9000562~~ **115124**

Branch Office 6-3-144 & 144/1, 3rd Floor, Jahanara Kareem Complex, Balanagar,  
Hyderabad - 500 037

Ph : 040-23777880/881

Fax : 040-23777879

Email : bobalanagar@nsic.co.in

Website : www.nsic.co.in

**STORE DETAILS CERTIFICATE**

**Disclaimer:-** The purchasing agencies are advised to satisfy themselves with the store details in the certificate while doing the Technical Evaluation stage before placing the tender/order on the units, certified by NSIC.



*(Signature)*  
Senior Branch Manager  
The National Small Industries Corporation Ltd.  
(A Government of India Enterprise)  
D.No. 6-3-144, 144/1, 3rd Floor,  
Jahanara Kareem Complex,  
Balanagar, Hyderabad - 500 037.  
26/2/19

M/s. DEESAWALA RUBBER INDUSTRIES

Authorised Signatory

"Authenticity of the certificate can be checked through the web portal: [www.nsicsonline.com](http://www.nsicsonline.com)"



CIN : U74140DL1955GOI002481

26/02/2019



# DEESAWALA ELASTOMERIC BEARING PAD & STRIP SEAL EXPANSION JOINTS



Page 3 of 3



**राष्ट्रीय लघु उद्योग निगम लिमिटेड**  
**THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED**

(A Government of India Enterprise)

S.No. ~~SA/No~~ 115125

Branch Office 6-3-144 & 144/1, 3rd Floor, Jahanara Kareem Complex, Balanagar,  
Hyderabad – 500 037

Ph : 040-23777880/881

Fax : 040-23777879

Email : bobalanagar@nsic.co.in

Website : www.nsic.co.in

## STORE DETAILS CERTIFICATE

Renewal Certificate (Valid From 27/01/2019 to 26/01/2021)

ANNEXURE TO GOVERNMENT PURCHASES ENLISTMENT CERTIFICATE

NO. NSIC/GP/BAL/2016/0025078 D.T. 26/02/2019

ISSUED TO M/s. DEESAWALA RUBBER INDUSTRIES, TELANGANA

Plot No 10/1, Road No D, IDA, Balanagar, Hyderabad, Medchal, TELANGANA-500037

Sno	Store(s)/ Service(s) Name	Specification(s)	Qualitative Capacity	Quantitative Capacity PA
1	Rubber Gasket & Pipes	Follows as BIS specifications BIS-5382	Upto 80 mm-2000 mm	16,00,000 Nos per annum on three shift basis
2	Composite grooved Rubber Sole Plate 6.2 GRSP	RDSO/MNC/RP-198/2006/ Provisional	Upto 6-6.2 mm	75,00,000 nos per annum on three shift basis
3	UIC Type Rubber Vestibule	RDSO/2007/CG-05	Upto 2000 mm	60,000 nos per annum on three shift basis
4	Elastometric Pad	IRC:83(part-II)2002 MORTH	Upto 1000 mm	40,000 nos per annum on three shift basis
5	PVC Water Stopper	Follows as per BIS:IS:15058	Upto 350 mm	80,000 Nos. per annum on three shift basis

Comments / Note  
(Optional): --NA--

M/s. DEESAWALA RUBBER INDUSTRIES

"Authenticity of the certificate can be checked through the web portal: [www.nsicsonline.com](http://www.nsicsonline.com)



*(Signature)*  
(P.R. Chaganti)

Senior Branch Manager  
The National Small Industries Corporation Ltd.  
(A Government of India Enterprise)  
D.No. 144-144/1, 3rd Floor,  
Jahanara Kareem Complex,  
Balanagar, Hyderabad-500 037.



CIN : U74140DL1955GOI002481

26/02/2019



# DEESAWALA ELASTOMERIC BEARING PAD & STRIP SEAL EXPANSION JOINTS



भारत सरकार - रेल मंत्रालय  
अनुसंधान और प्रकल्प और मानक संगठन  
कयनक - 226 011  
EPBX (0522) 2451200  
Fax (0522) 2458500

Government of India-Ministry of Railways  
Research Designs & Standards Organisation  
Lucknow - 226 011  
DIO (0522) 2450115  
DIO (0522) 2455310



BY REGD POST

संख्या: QA/CT/GRP/Asst/ Deesawala

दिनांक: 18.03.2019

Phone: 040-66323288(O)

Fax: 040-66323289 (O)

Email: [marketing@deesawalarubber.com](mailto:marketing@deesawalarubber.com)

[murtza@deesawalarubber.com](mailto:murtza@deesawalarubber.com)

M/s Deesawala Rubber Industries,  
5-5-65/5-12A, SA Trade Centre,  
Ranigunj X Road, Secundrabad,  
Telangana- India, 500003

Sub: Fresh registration of firm for inclusion in the list of Developmental Vendor as per STR  
NO.TDG-0008 Rev ' 3 '

Ref: Firm's application dated 03.08.2018 (Vendor Reference ID No.- 1053 )

Vide online application under reference above, firm had applied for Fresh Registration.  
After satisfactory processing, competent authority has approved the inclusion of the below  
mentioned firm in the category of vendor for "Developmental Vendor" for the item given below:-

1. Firm Name and Address:

Name of Firm	Office Address	Works Address
M/s Deesawala Rubber Industries,	5-5-65/5-12A, SA Trade Centre. Ranigunj X Road, Secundrabad, Telangana- India, 500003	Plot No.- 10/1, Road No. D, IDA, Balanagar, Hyderabad- 500037

2. Item for which approved:

S N	Item Description	Drawing	Specification
1	6 mm Thick Grooved Rubber Sole Plates	-	IRS: T-47-2006 with Amendment 3 of 2017.

3. Date of approval: 13.03.2019

4. Approval Details;

Firm Initial: " DEESA "	
Monthly Production Capacity: 2,21,184 Nos	Allied/Sister Concern: No
Ash Content to be maintain: 20.00%	Specific Gravity to be maintain: 1.26

संलग्नक: कुछ नहीं

*Law / Gaut*  
18/03/19  
( रविकात )

निदेशक / क्यू0ए0 / सिविल  
कृते महानिदेशक / क्यू0ए0 / सिविल

Copy: As per Mailing list.



# DEESAWALA ELASTOMERIC BEARING PAD & STRIP SEAL EXPANSION JOINTS



भारत सरकार Govt. of India सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES		MSME सूक्ष्म, लघु और मध्यम उद्यम MICRO, SMALL & MEDIUM ENTERPRISES		
<b>उद्योग आधार</b> <b>Udyog Aadhaar</b>				
<b>B</b>	Type of Enterprise	Micro	Small	Medium
	Manufacturing	A	B	C
	Services	D	E	F
	UAN	TS09B0018722		
	<b>Udyog Aadhaar Acknowledgement</b>			
Udyog Aadhaar Number TS09B0018722				
Name of Enterprise DEESAWALA RUBBER INDUSTRIES				
Postal Address UNIT ADDRESS: PLOT NO. 10/1, ROAD NO.D, I.D.A, BALANAGAR, HYDERABAD. OFFICE ADDRESS: 5-5-65/S-12A, S.A. TRADE CENTRE, RANIGUNJ 'X' ROAD, SECUNDERABAD.				
District RANGA REDDI		State TELANGANA		PIN
Mobile No: 9848017199		Email: deesarings@yahoo.co.in		
Date of commencement 23/11/1996				
Previous Registration details-if any EM-2 :: 280061205270				
Acknowledgement Date of Filing 22/12/2016		Date of Printing 22/12/2016		
Disclaimer: This is computer generated statement, no signature required. Printed from udyogaadhaar.gov.in				
MyMsme Mobile App (Beta Version) is available now for download. <a href="https://play.google.com/store/apps/details?id=msme.mymsme">https://play.google.com/store/apps/details?id=msme.mymsme</a>				



Contact for Pricing: - Call:- +91-9885634132 & +91-9041421442

Email:- [murtaza@deesawalarubber.com](mailto:murtaza@deesawalarubber.com) & [vaibhav@deesawalarubber.com](mailto:vaibhav@deesawalarubber.com)

Corporate Office: 5-5-65/S-12A, S.A. Trade Centre, Ranigunj 'X' Road, Secunderabad-3, P.B. No. 2188, Ph. 66323288.

Manufacturing Unit: Plot No. 10/1, Road No.D, I.D.A., Balanagar, Hyderabad-500037