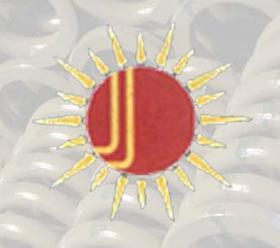
Associate Company: JJ Spring Manufacturing Pvt. Ltd.



J.J. Spring Manufacturing Private Limited, an ISO 9001:2008 company, was established in 1996 and is a quality manufacturer of helical hot coiled springs. It is an approved and audited vendor of the Indian Railways and has a history of supplying quality hot coiled springs to them.

The company uses modern yet cost effective methods to maximize production, efficiency and quality. The annual production is 2400 MT at full capacity. They are able to produce springs within the following specification:

Parameter	Minimum	Maximum
Inner Diameter of Finished Spring	32 mm	200 mm
Length/Height of Finished Spring	100 mm	450 mm
Diameter of Rod used to Produce Spring	7 mm	50mm

MANUFACTURING OVERVIEW



Above: Peeling & Straightening Yard.

Below: Centerless Grinding Machines





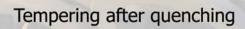
Worker inserting steel rods for coiling into a First-In-First-Out Walking Beam Furnace







Sealing of open ends after coiling









Pressure testing and scragging of all finished products



QUALITY SYSTEMS OVERVIEW



Magnetic Crack Detection (wet method) for finished springs





Spectrometer for raw material testing

M/S J.J. SPRING MFG.(P) LTD. BALITIKURI, HOWRAH. HIGH SPEED BOGIE SPRING Drg. No. WD -92058-5/5 ITEM -1,2 &3 SPRING STIFFNESS K.G/mm. STIFFNESS (K.g/mm) LOAD OF LOAD OF 30% 70% 26-24 -29-0 -918 K.G. 2144 K.G. OUTER (2102 N) (900 N.) -636 K.g. 1484 K.g. 33.48-35.83 (2) INNER 1665 K.g. 19.19 -20.46 (3) SHNUBBER-713 K.G. LOAD TEST TEST FR. HT. 0.5 TON. 1.0 TON. 1.5 TON. 2.0 TON. 2.5 TON. LOAD 2667 Kg. (1) OUTER - 260±3 242 224 206 163-5 (m.m)2126 Kg. (2) INNER - 243±3 185 181.8 (m.m)2379 Kg. (3) SNUBBER - 293±3 268 243 192

General guidelines for Quality Management

Stress Testing & Load Testing using Universal Testing Machine

(m.m)



172.8



Finished goods waiting for dispatch







www.iqcglobal.com

Certificate of Compliance INTEGRATED QUALITY CERTIFICATION PVT. LTD.

Hereby Certifies that the Quality Management System of

J.J. Spring Manufacturing Pvt. Ltd.

I - 45, Howrah Industrial Estate, Baltikuri, Howrah - 711 113, West Bengal, INDIA.

has been assessed and conforms to the quality management system standard

ISO 9001: 2008

Scope: Manufacture of Alloy and Spring Steel Helical Coil Springs, 9.5-50mm diameter for Indian Railways & other Engineering Industries

: 27/2762 ANZSIC Code

: 7.3 Exclusion(s)

: QMS/JAS-C1936/0266 Certificate Number

Last Issue date

: None

Issue date

: 13.12.2010

Expiry date

: 12.12.2013

Attachment(s)

: None

Executive Director

This certificate is valid subject to periodic surveillance audits of the quality management systems within the above defined scope as per the agreed contract terms and conditions. The organisation shall provide written notification to Integrated Quality Certification Pvt. Ltd. of any significant changes which have impact on the scope of this certificate of compliance.

QM-F-7.1-4

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GOVERNMENT OF INDIA MINISTRY OF RAILWAYS

RESEARCH DESIGNS & STANDARDS ORGANISATION MANAK NAGAR LUCKNOW - 228011

It has been decided to place

Factory Address:

M/s J J Spring Manufacturing (P) Ltd., Shed No J-45, Howrah Industrial Estate,

Baltikuri,

Howrsh-711113

Office Address

M/s J J Spring Manufacturing (P) Ltd., 43/3, Hezra Road ist & find Floor,

Kolkata-700019

on the list of approved vendors for the items listed below for supply to primary manufacturers and various railway units:

For manufacture and supply of:

S.N.	Item	Drg/Specs.	Status of Registration i.e. Part-I or Part-II
1	Suspension coil springs to material Gr.60Si7 for freight stock.	Spec. No. WD-01-HLS-1994 Rev. 3 of Jan' 09; Material – IS: 3195	Part-II
2,	Suspension coil springs to material Gr.52Cr4 Mo2V (Snubber & Side Bearer) for freight stock	Spec. No. WD-01-HLS-1994 Rev. 3 of Jan' 09; Material - IS: 3195	Part-li

Total Two (02) Items Only.

Vendor Code no. 395

Registration No. QAM/Regn/JJ Spg./C-468

Date of Issue: 03.01.2013

This registration shall be valid till - 31.03.2015

(S.K. Bewal)
Director (I&L)
For Director General/RDSO

Distribution:

Director / Dy Director, I&L, RDSO

- 3, Kollaghat street Kolkata 700001
- New Annexe building first floor, Western Railway, ChurchGate, Mumbai –400 020.
- IRCOT Building, Behind Shankar Market shivaji Bridge, New Delhi –110 002.

Please note

- All future changes in equipment, facilities & establishment at your works should be promptly communicated to the zonal in change.
- Notwithstanding what has been stated above, this office reserves the right to cancel your registration or to delete any components from the approved list at any time without notice & without assigning any reason thereto.
- 3. Inspection Authority is Director (I&L), RDSO, Kolkata.

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