

NOVA InfrasyS

NOVA INFRASYS brings you a parallel threaded mechanical splicing system, backed by experts with years of construction experience. Founded in 2017, we have rapidly become a trusted name in the industry within just 2-3 years!



www.novainfrasyS.com



| @novainfrasyS



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**MANUFACTURERS OF FOOD PROCESSING MACHINERIES, REBAR
COUPLERS & THREADING MACHINES**



NOVA Infrasy's

Regd. Office: Nai Basti Chaudhran Patti Baraut, (Baghpat) U.P. 250611.

Contact No: 91 7055477435

Email: Info@novainfrasy's.com

Web: www.novainfrasy's.com

ADD. Address: UPSIDC, Plot-D53, Baghpat Industrial Area, Baghpat (UP)
250619

ADD. Address: UPSIDC, Plot-C62, Baghpat Industrial Area, Baghpat (UP)
250609



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1.	INTRODUCTION TO THE COMPANY	3
2.	COMPANY PROFILE	4
3.	ORGANIZATION SETUP	5
4.	ORGANIZATION STRUCTURE	6
5.	DESIGN OF REINFORCEMENT BAR COUPLERS (PARALLEL THREADED - COLD FORGED)	7
6.	COMPANY SCOPE	8
7.	QUALITY CONTROL POLICY	9
8.	REBAR & COUPLER TECHNICAL SPECIFICATION (COLD FORGED)	10-11
9.	PLANT MACHINERY DETAILS	12
10.	THREADING METHOD (COLD FORGED) / THREADING METHOD (ROLL TECH)	13-14
11.	THREAD INSPECTION (COLD FORGED)	15-16
12.	OUR VALUABLE CLIENTS	17
13.	WHY CHOSE REBAR REINFORCEMENT SYSTEM!	18-19
14.	OUR CERTIFICATES: - UTS REPORT OF 25 MM REBAR - UTS REPORT OF 32 MM REBAR	
15.	CHEMICAL COMPOSITION OF M 20 COUPLER - CHEMICAL COMPOSITION OF M 25 COUPLER - CHEMICAL COMPOSITION OF M 32 COUPLER	20-22
16.	PROJECTS & DEVELOPMENT INDIA LIMITER	23
17.	TEST REPORTS	24-26
18.	L&T ENERGY HYDROCARBON REPORTS	27-38
19.	WHAT DO WE DO !	39
20.	PROJECTS AT A GLANCE	40



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INTRODUCTION

NOVA INFRASYS is introducing to the market a parallel threaded mechanical splicing system, which was formed in the year 2017 by a group of indigenous professionals with years of experience in construction. In a short span of 2-3 years, we have established our name as one of the leading companies in the construction field.

The company has its own offices in UP and a Delhi factory at Baraut (UP) & Sonipat (HR). We have one of the largest manufacturer & supplier networks in UP and India, with stocking & sales facilities.

Our customer base ranges from government to public & private sectors throughout the country. Rendering our services in areas where the highest importance is given to quality, total commitment to customer satisfaction is our utmost objective. We ensure that all individuals receive attention to priority.

Our sales service supports functions related to sales and ensures the consistent quality of parallel threaded mechanical splices, where threading is one of the most crucial steps. We never compromise on our quality system, ensuring it meets the requirements of our valued customers/clients.



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OUR PROFILE

NOVA INFRASYS is in the market of a parallel threaded mechanical splicing system designed for the connection of concrete reinforcing bars ranging from 16mm to 56mm. Our system is manufactured following international quality standards, conforming to British & American standards BS 8110 (1997) & ACI 318 (2005), ACI 349, ASME Sec III, Div 2. By manufacturing in A3 steel, our process includes cold forging & threading, ensuring a wide bar end finish for easy installation, with no torque wrenching required. We also use numerical control (CNC) technology for making couplers.

The mechanical splice connection develops tension or compression greater than 125% of the specified yield strength of the concrete reinforcement bar. The connection is designed under strict quality assurance by the ACP to withstand a minimum breaking strength of 650 N/MM².

Thus, the mechanical splicing system is the most reliable and economical, offering additional advantages. It has been developed with the assurance of maintaining load path continuity in structural reinforcement, independent of conditions or the existence of concrete.

NOVA INFRASYS also manufactures Bar Break (BB) Type 2 cold-forged parallel threaded mechanical couplers as per Seismic Design ACI-318, based on client-specific orders. We provide all types of fabrication works in MS & SS. Additionally, we manufacture Rice, Pulses, Flour & Wheat Plants, along with all types of machinery, based on client-specific orders.



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ORGANIZATION SETUP

1. **Name of The Company** : NOVA INFRASYS
2. **Status** : PROPRIETOR
3. **Year of Establishment** : 2017
4. **Director** : Mr. JAVED KHAN
5. **Office Address(1)** : Regd. Office: Nai Basti
Chaudhran Patti Baraut,
(Baghpat) U.P. 250611.
- (2)** : UPSIDA, D53 & C62 Baghpat
Industrial Area (U.P.) 250609
6. **Total Staff** : 22
7. **Bankers** : AXIS BANK, CANARA BANK



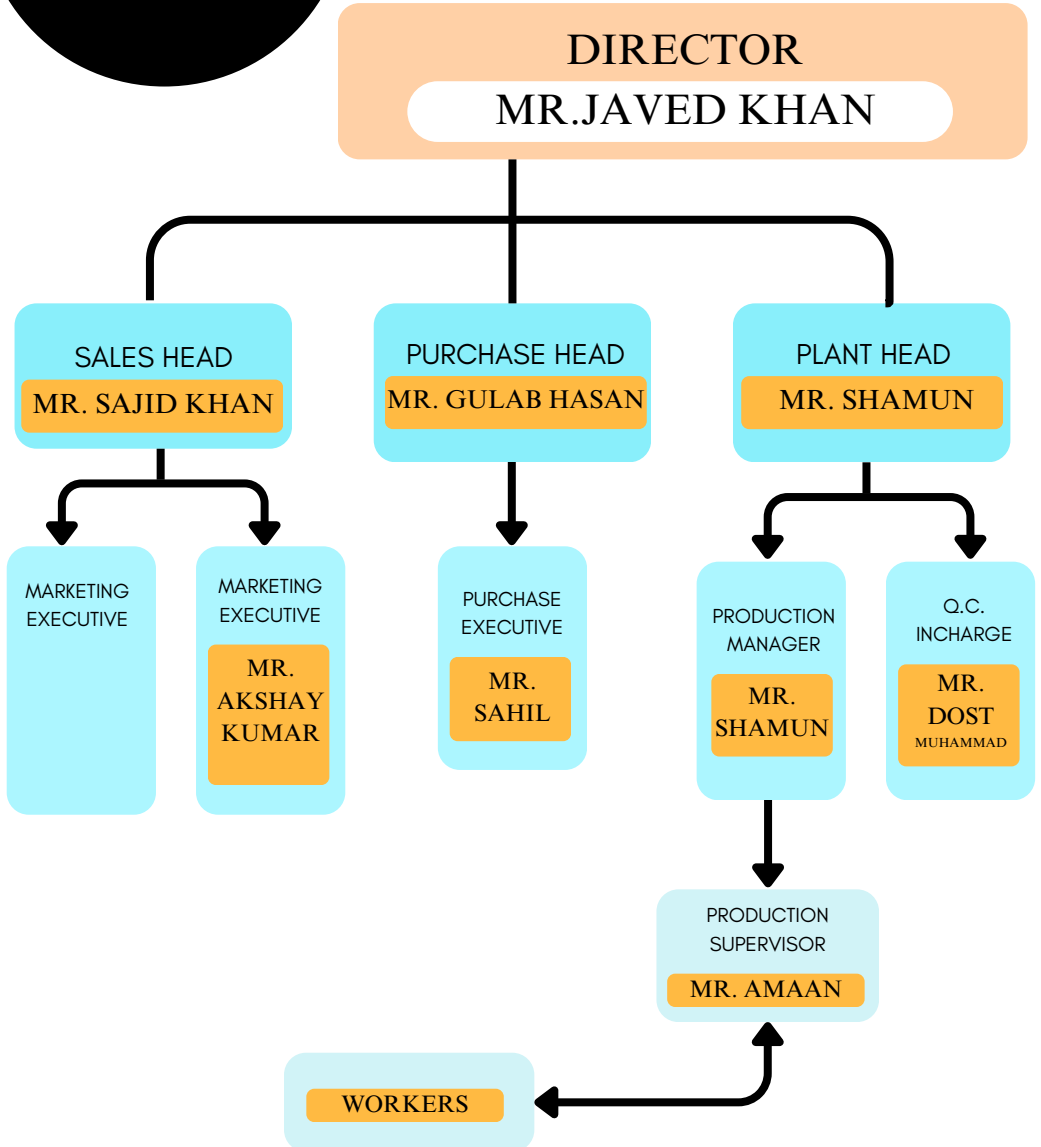
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ORGANIZATION STRUCTURE





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DESIGN OF REINFORCEMENT REBAR COUPLER (PARALLEL THREADED – COLD FORGED)



REBAR SIZE	OD (D) SIZE (±1mm)	LENGTH (L) (±0.2mm)	FINISH WEIGHT	THREAD PITCH (mm) 2.Ø MM	THREAD SIZE
16MM	35.5	44	0.13	2.5 MM	M-18X2.0
20MM	42.5	54	0.18	3.0 MM	M-23X2.5
25MM	48	62	0.45	3.0 MM	M-29X3.0
28MM	50.5	72	0.59	4.0 MM	M-31X3.0
32MM	60.5	80	0.69	4.0 MM	M-35X4.0
36MM	63.5	90	1.19	4.0 MM	M-39X4.0
40MM			1.33	4.0 MM	M-43X4.0



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COMPANY SCOPE

Manufacture & Supply of couplers and providing threading job work of TMT bars on site for construction industry.

Procedure for Production, Maintenance & Quality Control (Parallel Coupler)

Our Manufacture Unit Procedure are as Below :-

Steel EN 8D or C-45 steel purchased by ISMT are tested. Once the material is receive from the supplier

Inspection is carried out as per the raw material quality plan. Raw materials are tested at regular intervals as per the requirements of customer. The raw material is tested to check the chemical compositions. Once the material is found OK as per the requirements, the QC in charge signs in the Party's challan and sends the party challan with one copy of inspection report to head office. The OK Material batch code number is recorded in raw material inspection report the same raw material batch code is then conveyed to production department for further tracability.

The operating of the machine /operations is done on the basis of the Standard Operating Procedures as listed in list of S.O.P.



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QUALITY CONTROL POLICY

Procedure for Production, Maintenance & Quality Control - (TMT)Threading

We have started mobile service through container and can do Threading job at any site for minimum 2000 Threading Work. 16MM, 20MM, 25MM, 32MM 36MM & 40 MM Threading Job work is carried out by us.

Our site procedure are as below :-

TMT Threading production at site are carried out under controlled conditions to ensure compliance of product to specified requirements & Customer Requirements. Site incharge and Production Supervisor, Responsible for monitoring process parameters, operators and maintaining related production records.

To provide guidelines for measuring and monitoring of product parameters for verifying conformance to specified requirements. QC- In charge is responsible for implementation of this procedure.

Production planning is based on the requirements given by the customer thru work order. The Site in charge plans the production of threading. The Daily priority list is then prepared by Site incharge as per planning displayed daily production planning board.

The process wise quality plan is prepared and issued by Q.C. In charge. For finished product, the Q.C in charge authorizes the acceptance under deviation with due approval of customer as per contractual obligations.

The main tool used in production activities are chasers and dies. All TMT Bar Thread length is thoroughly checked by Vernier Caliper and OD size is checked by Ring Go Gauge - Ring No Go Gauge. All instrument and gauges are identified with unique number and its calibration status.



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REBAR TECHNICAL SPECIFICATION- COLD FORGED

NOVA INFRASYS	(COUPLER) TECHNICAL SPECIFICATION	REVISION	DATE:- 02-06-2018
--------------------------	--	-----------------	------------------------------

CHECKING PARAMET ERS	16MM	20MM	25MM	32MM	36MM	40MM	Checking Instrument	Frequency Check
OD SIZE (±1mm)	25.5	32.5	42.5	50.5	60.5	63.5	Vernier caliper	Each
LENGTH (±0.2mm)	36	44	54	72	80	90	Vernier caliper	Each
PITCH (MM)	2.0	2.5	3.0	4.0	4.0	4.0	Plug Gauge	3 Per lot
THREAD	M-18x2.0	M-23x2.5	M-29x3.0	M-35x4.0	M-39x4.0	M-43x4.0	Thread Plug Gauge	5 Nos/shift
ANTIRUST	Apply	Apply	Apply	Apply	Apply	Apply	Visual	Each
PACKING	320	105	60	40	24	18	Visual	Each
Nominal Area (mm ²)	201.14	314.28	491.1	804.6	1018.3	1257.2	TC	Every piece/heat
U.T.S. (N/mm ²)	650	650	650	650	650	650	-	-



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REBAR COUPLER TECHNICAL SPECIFICATION

NOVA INFRASYS	(COUPLER) TECHNICAL SPECIFICATION	REVISION	DATE:- 01-06-2018
		DOC. NO.:- SE/06	SHEET:- 1 OF 1

QUALITY PROCESS - FINAL INSPECTION								
CHECKING PARAMETERS	ACCEPTABLE LIMIT						CHECKING INSTRUMENT	FREQUENCY CHECK
	16MM	20MM	25MM	32MM	36MM	40MM		
OD SIZE (±1MM)	25.5	32.5	42.5	50.5	60.5	63.5	VERNIER CALLIPER	EACH
LENGTH (±0.2MM)	36	44	54	72	80	90	VERNIER CALLIPER	EACH
PITCH H (MM)	2.0	2.5	3.0	4.0	4.0	4.0	PLUG GAUGE	3 PER LOT
THREAD	M-18X2.0	M-23X2.5	M-29X3.0	M-35X4.0	M-39X4.0	M-43X4.0	THREAD PLUG GAUGE	5 Pcs Per Shift
ANTIRUST	APPLY	APPLY	APPLY	APPLY	APPLY	APPLY	VISUAL	EACH
PACKING	320	105	60	40	24	18	VISUAL	EACH
Nominal Area (mm ²)	201.14	314.28	491.1	804.6	1018.3	1257.2	TC	Every piece per heat
U.T.S (N/mm ²) Minimum	650	650	650	650	650	650		
Result	TMT Bar should break							

PREPARED BY:- Q.C. INCHARGE

APPROVED BY:- MR. ROBIN



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PLANT MACHINERY DETAILS

Following Tables Shows the List of Machine.....

S.No	Machines
1	Bend Saw Machine
2	Forging Machine
3	Bench Grinder Machine
4	Hand Grinder Machine
5	Turning Machine
6	Traub Machine
7	RollTech Threading Machine
8	Chaser Threading Machine
9	Electrode Welding Machine
10	Mig Welding Machine
11	CNC Machine
12	Milling Machine
13	Drill Machine



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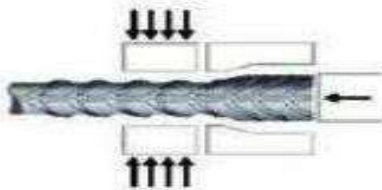
THREADING METHOD :- COLD FORGED

1. Cutting - The end of Reinforcing bar in saw square.



2. Cold Forging

The saw end of the reinforcing bar is then enlarged by a patented cold forging process. The core diameter of the bar is increased to a pre-determined diameter.



3. Turning

The Rib of Forged bar is removed by turning process for even surface.



4. Threading

Finally, the thread is mechanically cut onto the enlarged end of the bar.





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THREADING METHOD : - ROLL TECH

1. Cutting- The end of Reinforcing bar in saw square.



2. Turning

The Rib of Forged bar is removed by turning process for even surface.



4. Threading

Finally, the thread is mechanically made onto turned end of the bar.





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THREAD INSPECTION.. COLD FORGED

NOVA INFRASYS	QUALITY PLAN FOR FINAL INSPECTION(Full & Half Thread)	REVISION NO.:00		DATE: 01/06/2019		
		DOC. NO.: SE /06		SHEET: 1 OF 1		
QUALITY PROCESS - FINAL INSPECTION						
CHECKING PARAMETERS	ACCEPTABLE LIMIT			CHECKING INSTRUMENT	FREQUENCY CHECK	
TMT BAR THREAD LENGTH	16mm	Half Thread	20(+1mm)	Vernier Calliper	Each	
		Full Thread	36(+1mm)	Vernier Calliper	Each	
	20mm	Half Thread	27(+1mm)	Vernier Calliper	Each	
		Full Thread	44(+1mm)	Vernier Calliper	Each	
	25 mm	Half Thread	32(+1mm)	Vernier Calliper	Each	
		Full Thread	54(+1mm)	Vernier Calliper	Each	
	32mm	Half Thread	39(+1mm)	Vernier Calliper	Each	
		Full Thread	72(+1mm)	Vernier Calliper	Each	
	36mm	Half Thread	43(+1mm)	Vernier Calliper	Each	
		Full Thread	80(+1mm)	Vernier Calliper	Each	
	40 mm	Half Thread	48(+1mm)	Vernier Calliper	Each	
		Full Thread	90(+1mm)	Vernier Calliper	Each	
	THREAD SIZE	16mm	M-18X2.0		Ring Gauge	3 Per Lot
		20mm	M-23X2.5		Ring Gauge	3 Per Lot
25mm		M-29X3.0		Ring Gauge	3 Per Lot	
32mm		M-35X4.0		Ring Gauge	3 Per Lot	
36mm		M-39X4.0		Ring Gauge	3 Per Lot	
40mm		M-43X4.0		Ring Gauge	3 Per Lot	



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OUR VALUABLE CLIENTS

- **CCTEB Private Ltd (China)**
- **L&T Energy Hydrocarbon Limited (India)**
- **Tulip Infra Pvt. Limited (India)**
- **Shrinath Industries (India)**
- **Abhiram Nirmaan India Pvt. Ltd. (India)**
- **M.K. Builders (India)**
- **Hema Abodes (India)**
- **Vaishakhi Developers (India)**
- **DEPL (India)**
- **Bhagwati Lacto Foods Pvt. Ltd. (India)**
- **Healthy Harvested Food Pvt. Ltd. (India)**
- **Everyday Steels Storage Pvt. Ltd. (India)**
- **Bhupati Engineering (India)**
- **Dawat Rice Mill (India)**
- **Indian Oil Adani Ventures (India)**
- **Jianan Engineering Pvt. Ltd. (China)**
- **Wuhuan Engineering Pvt. Ltd. (China)**
- **AB Pallet Foods (Nepal)**
- **First Choice Foods Inc. (Canada)**



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OUR VALUABLE CLIENTS

WHY CHOOSE REBAR REINFORCEMENT SYSTEM !

Difference between Overlapping & Reinforcement

DIA	LENGTH OF OVERLAP	WEIGHT	VALUE OF OVERLAPPED BAR	VALUE OF REINFORCEMENT SYSTEM
16MM	800MM	1.26Kg	X Rs / Joint	Y Rs / Joint
20MM	1000MM	2.40Kg	X Rs / Joint	Y Rs / Joint
25MM	1250MM	4.82Kg	X Rs / Joint	Y Rs / Joint
32MM	1600MM	10.11Kg	X Rs / Joint	Y Rs / Joint

1. Here "x" indicated the Current Rates of Rebar

2. Here "Y" Indicates the current Rates of Re-Inforcement System

3. Here "Z" Indicates the Difference Between Overlapping & Re-Inforcement

4. Coupler's Metal Grade is "EN8D"

5. "EN8D" is govt. Approved Metal for joints in Construction Industry.

6. By using Re-Inforcement system, you will save around a good amount on per joint in 16MM Bar.

7. By using Re-Inforcement system, you will save around a good amount on per joint in 20MM Bar.

8. By using Re-Inforcement system, you will save around a good amount on per joint in 25MM Bar.

9. By using Re-Inforcement system, you will save around a very good amount on per joint in 32MM Bar.



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UTS REPORT OF 25 MM REBAR



**BUREAU
VERITAS**

Ref:BV IPL: S.STEEL/ BL/2516(a)/3/2017
Test Order dated: 24.3.17

Date : 24.3.2017

TEST REPORT ON COUPLER JOINT SAMPLE

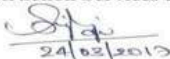
Source of sample	:	Sample supplied by the customer
No. of samples tested	:	1 (One)
UIN	:	17009371
Customer's Reference	:	Letter dated 24.3.17
Project*	:	Not furnished
Grade of Steel*	:	EN 8D
Date of test	:	24.3.17
Condition of samples	:	Satisfactory
Test Method	:	IS:1608 – 2005 (Reaffirmed 2011) and IS: 16172 – 2014

Sl No	Nominal Dia* (mm)	Static Tensile Strength (N/mm ²)	Elongation (%)	Location of fracture
1	25 / 25	658	5.4	Fractured outside the coupler
Requirement as per IS: 16172 – 2014		Min. 600	Min. 3.0	The location of failure shall be deemed to be in the bar

* As furnished by the customer

- Note:**
1. The results relate only to the samples tested.
 2. Report shall not be reproduced, except in full, without the written approval of the lab.
 3. Any correction invalidates this report.

for **BUREAU VERITAS (INDIA) PRIVATE LIMITED**
Construction Services Laboratory


24/03/2017
SANJEEV PATGAR
Quality Manager



Bureau Veritas (India) Private Limited
(Construction Services Laboratory)
43, 45-47, Pete Chennappa Inds. Estate, 1st Main,
Magadi Road, Kamakshipalya, Bangalore - 560 079
Tel: +91 80 23011800 Fax: +91 80 26716833
bangalore.lab@in.bureauveritas.com

Regd. Off. : Marwal Centre, 6th Floor
K. Marwal Marg, Off Saki-Vihar Road
Andheri (East), Mumbai - 400 072, India
Tel: +91 22 66956300 Fax: +91 22 66956309
www.bureauveritas.co.in
CIN : U74210MH2001PTC134262

Offices/Labs at: Ahmedabad, Baroda
Bhopal, Chennai, Cochin, Coimbatore
Delhi, Goa, Hubli, Hyderabad, Indore
Jaipur, Kakinada, Kandla, Kolkata, Ludhiana
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Surat, Trichy & Visakhapatnam



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UTS REPORT OF 32 MM REBAR

SUNBEAM
AUTO PVT. LTD.

TESTING, RESEARCH & DEVELOPMENT CENTRE

38/6, K. M. Stone, Delhi-Jaipur Highway, Narsingpur, Gurgaon - 122 001 (Haryana) India
Ph.: +91-124-4129254, Fax: +91-124-4129751/52
E-mail: lab@sunbeamauto.com URL : sunbeamauto.com

Certificate No. **489299**

TEST CERTIFICATE

Party Name : SKY MANSION PROJECT
CHANDAN HULA
DELHI

Date : 18/12/2018

Job Order No. : 812-811-1042

Reference No. :

Date : 17.12.2018

Sample Particulars : ONE SAMPLE OF TMT BAR WITH COUPLER MARKED AS DIA 32MM WAS RECEIVED.

ULR - TC676418000004122F

RESULTS

Test As Per IS : 16172

Dia : 32mm

Test	Observation	Requirement Fe-500D	Conformity
Tensile Strength (N/mm ²)	694*	565 Min	Yes
Location Of Failure	Broken Outside Mechanical Splice	Should Be Outside Of Mechanical Splice	Yes

Note : For calculation of tensile strength, nominal area is used instead of actual cross sectional area.

Remarks : The above sample conforms to IS : 16172 : 2014 (Gr.-500D) W.R.T. Above test.

***** End of Result *****



1. Sample will be retained only for one month.
 2. The results listed refer only to the tested samples and applicable parameter.
- Endorsement of product is neither inferred nor implied.



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CHEMICAL COMPOSITION OF M 20 COUPLER

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AUTO PVT. LTD.

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36/6, K. M. Stone, Delhi-Jaipur Highway, Narsimgpur, Gurgaon - 122 001 (Haryana) India
Ph: +91-124-4129254, Fax: +91-124-4120751/52
E-mail: lab@sunbeamauto.com URL : sunbeamlabs.com

Certificate No. **489304**

TEST CERTIFICATE

Party Name : SKY MANSION PROJECT
CHANDAN HULA
DELHI

Date : 18/12/2018

Job Order No. : 812-811-1047

Reference No. :

Date : 17.12.2018

Sample Particulars : ONE SAMPLE OF COUPLER MARKED AS DIA 20MM WAS RECEIVED.

RESULTS

ULR - TC676418000004127F

As Per EN 8D Grade of Steel

Chemical Analysis

By Emission Spectrometer (Protocol: Technical Manual)

Element	%	Specified %	Conformity
Carbon	0.448	0.40 - 0.45	Yes
Silicon	0.176	0.05 - 0.35	Yes
Manganese	0.739	0.70 - 0.90	Yes
Phosphorus	0.025	0.060 Max	Yes
Sulphur	0.009	0.060 Max	Yes
Chromium	0.009	---	---
Molybdenum	0.000	---	---
Nickel	0.023	---	---
Aluminium	0.0065	---	---
Boron	0.0000	---	---
Cobalt	0.000	---	---
Copper	0.005	---	---
Neobium	0.0090	---	---
Lead	0.0023	---	---
Tin	0.007	---	---
Titanium	0.001	---	---
Vanadium	0.000	---	---
Iron	98.53	---	---

Remarks : Sample conforms to EN 8D grade of Steel W.R.T. above test.

***** End of Result *****



1. Sample will be retained only for one month.
2. The results listed refer only to the tested samples and applicable parameter. Endorsement of product is neither inferred nor implied.
3. Total liability of our works is limited to invoiced amount.



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CHEMICAL COMPOSITION OF M 25 COUPLER

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TESTING, RESEARCH & DEVELOPMENT CENTRE

38/6, K. M. Stone, Delhi-Jaipur Highway, Narsingpur, Gurgaon - 122 001 (Haryana) India
Ph: +91-124-4129254, Fax: +91-124-4129751/52
E-mail: lab@sunbeamauto.com URL: sunbeamlabs.com

Certificate No. **489302**

TEST CERTIFICATE

Party Name : SKY MANSION PROJECT
CHANDAN HULA
DELHI

Date : 18/12/2018

Job Order No. : 812-811-1045

Reference No. :

Date : 17.12.2018

Sample Particulars : ONE SAMPLE OF COUPLER MARKED AS DIA 25MM WAS RECEIVED.

RESULTS

ULR - TC676418000004125F

As Per EN 8D Grade of Steel

Chemical Analysis

By Emission Spectrometer (Protocol: Technical Manual)

Element	%	Specified %	Conformity
Carbon	0.450	0.40 - 0.45	Yes
Silicon	0.205	0.05 - 0.35	Yes
Manganese	0.716	0.70 - 0.90	Yes
Phosphorus	0.019	0.080 Max	Yes
Sulphur	0.008	0.060 Max	Yes
Chromium	0.000	---	---
Molybdenum	0.000	---	---
Nickel	0.036	---	---
Aluminium	0.0200	---	---
Boron	0.0000	---	---
Cobalt	0.000	---	---
Copper	0.004	---	---
Niobium	0.0081	---	---
Lead	0.0022	---	---
Tin	0.007	---	---
Titanium	0.003	---	---
Vanadium	0.000	---	---
Iron	98.51	---	---

Remarks : Sample conforms to EN 8D grade of Steel W.R.T. above test.

***** End of Result *****

1. Sample will be retained only for one month.
2. The results listed refer only to the tested samples and applicable parameter. Endorsement of product is neither inferred nor implied.
3. Total liability of our works is limited to invoiced amount.





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CHEMICAL COMPOSITION OF M 32 COUPLER

**SUNBEAM
AUTO PVT. LTD.**

35/6, K. M. Stone, Delhi-Jaipur Highway, Narsingpur, Gurgaon - 122 001 (Haryana) India
Ph.: +91-124-4129254, Fax: +91-124-4129751/52
E-mail: lab@sunbeamauto.com URL: sunbeamauto.com

TESTING, RESEARCH & DEVELOPMENT CENTRE

Certificate No. **489300**

TEST CERTIFICATE

Party Name : SKY MANSION PROJECT
CHANDAN HULA
DELHI

Date : 18/12/2018

Job Order No. : 812-811-1043

Reference No. :

Date : 17.12.2018

Sample Particulars : ONE SAMPLE OF COUPLER MARKED AS DIA 32MM WAS RECEIVED.

ULR - TC676418000004123F

RESULTS

As Per EN 8D Grade of Steel

Chemical Analysis

By Emission Spectrometer (Protocol: Technical Manual)

Element	%	Specified %	Conformity
Carbon	0.444	0.40 - 0.45	Yes
Silicon	0.254	0.05 - 0.35	Yes
Manganese	0.707	0.70 - 0.90	Yes
Phosphorus	0.012	0.060 Max	Yes
Sulphur	0.008	0.060 Max	Yes
Chromium	0.000	---	---
Molybdenum	0.000	---	---
Nickel	0.032	---	---
Aluminium	0.0240	---	---
Boron	0.0000	---	---
Cobalt	0.000	---	---
Copper	0.004	---	---
Neobium	0.0090	---	---
Lead	0.0030	---	---
Tin	0.007	---	---
Titanium	0.005	---	---
Vanadium	0.000	---	---
Iron	98.47	---	---

Remarks : Sample conforms to EN 8D grade of Steel W.R.T. above test.

***** End of Result *****

1. Sample will be retained only for one month.
 2. The results listed refer only to the tested samples and applicable parameter.
 3. Endorsement of product is neither inferred nor implied.
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TEST REPORTS 1



SCIENTIFIC INFRA GEOINVESTIGATION LAB

Regd. Office: Plot No. 2, DC Enclave, Main Wazirpur Road, Near Dream Land 24, Faridabad, Haryana -121002

E-mail: scientificinfra6714@gmail.com; sigilab19@gmail.com; Website: www.sigelab.com; Mob. No.- 9873720389, 8851141782

TEST REPORT

(NABL ACCREDITED LAB)

Page 1 of 1

Report Number: SIGIL20220798/04	Date of Report: 31/08/2022
Sample Description: TMT Steel (20mm)	Job Code No.: 20220823/04
Source/Brand- Nova InfrasyS, Heat/Tag No.: - NIE103	Date of Testing (Start): 31/08/2022
Issued to: M/s. Projects & Development India Limited	Date of Testing (Final): 31/08/2022
PDIL Bhawan, A-14, Sector-1, Noida-201301	Sample Quantity: 3 bar X 1mtr.
Distt. Gautam Budh Nagar, (U.P.) India	Sample Condition: Ok
Letter Ref. No.: PDIL/TFL/Site/Wuhuan/70, Dated: 09/08/2022	Environmental Condition:
Sample Received on: 23/08/2022	Temp: 27° ± 2° C, RH: 65 ± 5 %
Name of Agency: Wuhuan Engg. Co. Ltd.	
Name of Project: - Coal Gasification & Ammonia Urea Plants of M/s TFL site at Talcher.	

TEST RESULTS

SL. NO.	PHYSICAL TESTING	OBSERVED VALUE	TEST METHOD	PERMISSIBLE VALUES AS PER IS:1786-2008, RA-2018 Grade Fe-500D	CONFORMITY
1.	Yield Stress (N/mm ²)	553.33	IS: 1608 (P-1) 2018	500.0 Min.	Yes
2.	Static Tensile Strength (N/mm ²)	655.62	IS: 1608 (P-1) 2018	565.0 Min.	Yes
3.	Elongation (%) on GI = 5.65 A/A (A= Area)	20.20	IS: 1608 (P-1) 2018	16.0 Min.	Yes
4.	Slip Test	0.02	IS: 16172-2014	0.10 Max.	Yes
5.	Mass per meter run (Kg)	2.692	IS: 1786-2008	--	--
6.	Location of Fracture	Parent Metal	--	--	--

Witness by

PDIL

Wuhuan Engineering Co. Ltd.

Signature

(Handwritten Signature)
31/08/22

(Handwritten Signature)
31/08/22

Name

Mehd. Wasif

Arvish Jain

(Handwritten Signature)
ARUN KUMAR PANDEY
Quality Manager

AUTHORISED SIGNATORY

- Note:
1. Sample will be retained for one month.
 2. In case the sample is taken back, No further responsibility of any discrepancies.
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E-mail: scientificinfra6714@gmail.com; sigilab19@gmail.com; Website: www.sigilab.com; Mob. No. - 9873720389, 8851141782

TEST REPORT

(NABL ACCREDITED LAB)

Page 1 of 1

Report Number: SIGIL20220798/05	Date of Report: 31/08/2022
Sample Description: TMT Steel (25mm)	Job Code No.: 20220823/05
Source/Brand- Nova InfrasyS, Heat/Tag No.: - NIE103	Date of Testing (Start): 31/08/2022
Issued to: M/s. Projects & Development India Limited	Date of Testing (Final): 31/08/2022
PDIL Bhawan, A-14, Sector-1, Noida-201301	Sample Quantity: 3 bar X 1mtr.
Distt. Gautam Budh Nagar, (U.P.) India	Sample Condition: Ok
Letter Ref. No.: PDIL/TFL/Site/Wuhuan/70, Dated: 09/08/2022	Environmental Condition:
Sample Received on: 23/08/2022	Temp: 27 ^o ± 2 ^o C, RH: 65 ± 5 %
Name of Agency: Wuhuan Engg. Co. Ltd.	
Name of Project: - Coal Gasification & Ammonia Urea Plants of M/s TFL site at Talcher.	

TEST RESULTS

SL. NO.	PHYSICAL TESTING	OBSERVED VALUE	TEST METHOD	PERMISSIBLE VALUES AS PER IS:1786-2008, RA-2018 Grade Fe-500D	CONFORMITY
1.	Yield Stress (N/mm ²)	589.74	IS: 1608 (P-1) 2018	500.0 Min.	Yes
2.	Static Tensile Strength (N/mm ²)	707.30	IS: 1608 (P-1) 2018	565.0 Min.	Yes
3.	Elongation (%) on GI = 5.65 √A (A= Area)	22.42	IS: 1608 (P-1) 2018	16.0 Min.	Yes
4.	Slip Test	0.04	IS: 16172-2014	0.10 Max.	Yes
5.	Mass per meter run (Kg)	4.165	IS: 1786-2008	--	--
6.	Location of Fracture	Parent Metal	--	--	--

Witness by

PDIL

Wuhuan Engineering Co. Ltd.

Signature

Wahid
31/08/22

Arjun
31/08/22

Name

Mehd. Wasif

Arvish Jain

A.K. Pandey

ARUN KUMAR PANDEY
Quality Manager

AUTHORISED SIGNATORY

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E-mail: scientificinfra6714@gmail.com; sigilab19@gmail.com; Website: www.sigelab.com; Mob. No. - 9873720389, 8851141782

TEST REPORT

(NABL ACCREDITED LAB)

Page 1 of 1

Report Number: SIGIL20220798/06	Date of Report: 31/08/2022
Sample Description: TMT Steel (32mm)	Job Code No.: 20220823/06
Source/Brand-Nova InfrasyS, Heat/Tag No.: - NIE103 Issued to: M/s. Projects & Development India Limited PDIL Bhawan, A-14, Sector-1, Noida-201301 Distt. Gautam Budh Nagar, (U.P.) India	Date of Testing (Start): 31/08/2022 Date of Testing (Final): 31/08/2022 Sample Quantity: 3 bar X 1mtr. Sample Condition: Ok Environmental Condition: Temp: 27 ^o ± 2 ^o C, RH: 65 ± 5 %
Letter Ref. No.: PDIL/TFL/Site/Wuhuan/70, Dated: 09/08/2022 Sample Received on: 23/08/2022 Name of Agency: Wuhuan Engg. Co. Ltd.	
Name of Project: - Coal Gasification & Ammonia Urea Plants of M/s TFL site at Talcher.	

TEST RESULTS

SL. NO.	PHYSICAL TESTING	OBSERVED VALUE	TEST METHOD	PERMISSIBLE VALUES AS PER IS:1786-2008, RA-2018 Grade Fe-500D	CONFORMITY
1.	Yield Stress (N/mm ²)	548.62	IS: 1608 (P-1) 2018	500.0 Min.	Yes
2.	Static Tensile Strength (N/mm ²)	667.55	IS: 1608 (P-1) 2018	665.0 Min.	Yes
3.	Elongation (%) on GI = 5.65 √A (A= Area)	17.48	IS: 1608 (P-1) 2018	16.0 Min.	Yes
4.	Slip Test	0.03	IS: 16172-2014	0.10 Max.	Yes
5.	Mass per meter run (Kg)	6.792	IS: 1786-2008	--	--
6.	Location of Fracture	Parent Metal	--	--	--

Witness by

PDIL

Wuhuan Engineering Co. Ltd.

Signature

M. Wasif
31/08/22

Anish
31/08/22

Name

Mehd. Wasif

Anish Jai

Arun Kumar Pandey
ARUN KUMAR PANDEY
Quality Manager

AUTHORISED SIGNATORY

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Office
1-4, First Floor, Mulund House,
Azadpur, Delhi-110 033
T:011 48018197 | M: 91 9871143795

Laboratory
Plot No. 40, I GIDC, Inl. Estate,
Raj. Sonapat, Haryana-131029
T:01304017631 | M: 91 9815515682

Email/Website
info@metl.co.in
metlson@yahoo.com
www.metl.co.in

TEST REPORT

Page No. 1/1

Report No: METL/24-25/254/201	Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Builet & Tankage of Root Project, Extension of P-25 Project, IOCL, Refinery Panipal (Haryana)	Date of Receipt	10/09/2024
	Date of Sampling	10/09/2024
	Date of Start	10/09/2024
	Date of Completion	10/09/2024
Ref. No.: N.A.	Ref. Date	10/09/2024
Subject	Testing of steel.	
Description of Sample:	COUPLER (20mm)	
Steel Make	Rashmi	
Coupler Make	Nova infrasyS	
Sample No.	1	
Grade	Fe 500D	

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	709.36	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS : 16172 : 2023
2	Location Of Failure	----	inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2018	IS : 16172 : 2023
3	Percentage Elongation at maximum force	%	6.32	3.0 Min	IS : 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.
Note:- The Submitted sample witness by L&T representative.

*** End of Report***

Ravinder Kumar
Analyst
Checked by



Awachash Kumar Singh
Senior Technical Manager
Authorized Signatory

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1-4, First Floor, Mukund House,
Azadpur, Delhi-110 033
T: 011-48018197 | M: +91 9871143795

Laboratory
Plot No. 42, HSIIDC Indl. Estate,
Rail, Sonapat, Haryana-131029
T: 0130-4017631 | M: +91 9819515656

Email/Website
info@med.co.in
meds@nvhq.com
www.med.co.in

TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/202		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Builet & Tarikaga of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER (20mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova InfrasyS		
Sample No.	2		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	717.62	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
3	Percentage Elongation at maximum force	%	5.96	3.0 Min	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

*** End of Report***

Ravinder Kumar
Analyst
Checked by



Aneesh Kumar Singh
Senior Technical Manager
Authorized Signatory

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Azadpur, Delhi-110 033
T: 011-48018197 | M: +91 9871143795

Laboratory
Plot No. 42, HSIIDC Indl. Estate,
Raj, Sonapat, Haryana-131029
T: 0130-4017631 | M: +91 9215515556

Email/Website
info@med.co.in
meds@hyeco.com
www.med.co.in

TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/203		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tarikaga of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER (20mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova infrasys		
Sample No.	3		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	718.26	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
3	Percentage Elongation at Maximum Force	%	6.66	3.0 Min	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

*** End of Report***

Ravinder Kumar
Analyst
Checked by



Aneesh Kumar Singh
Senior Technical Manager
Authorized Signatory

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Office
1-4, First Floor, Mukund House,
Azadpur, Delhi-110 033
T: 011-48018197 | M: +91 8871143795

Laboratory
Plot No. 42, HSIIDC Indl. Estate,
Raj. Sonapat, Haryana-131029
T: 0130-4017631 | M: +91 9815015656

Email/Website
info@metd.co.in
metd@metd.co.in
www.metd.co.in

TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/204		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tankage of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject Testing of steel.		Date of Start	10/09/2024
Description of Sample: COUPLER-MBT (20mm)		Date of Completion	10/09/2024
Steel Make Rashmi		Ref. Date	10/09/2024
Coupler Make Nova InfrasyS			
Sample No. 1			
Grade Fe 500D			

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	705.0	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

End of Report

Ravinder Kumar
Analyst
Checked by



Awechash Kumar Singh
Senior Technical Manager
Authorized Signatory

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Office
1-4, First Floor, Mukund House,
Azadpur, Delhi-110 033
T: 011-48018197 | M: +91 8871143795

Laboratory
Plot No. 42, HSIIDC Indl. Estate,
Raj, Sonapat, Haryana-131029
T: 0130-4017631 | M: +91 9819515656

Email/Website
info@med.co.in
meds@iwhco.com
www.med.co.in

TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/205		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tankage of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER-MBT (20mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova InfrasyS		
Sample No.	2		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	703.00	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

End of Report

Ravinder Kumar
Analyst
Checked by



Awechash Kumar Singh
Senior Technical Manager
Authorized Signatory

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Office
1-4, First Floor, Mukund House,
Azadpur, Delhi-110 033
T: 011-48018197 | M: +91 8871143795

Laboratory
Plot No. 42, HSIIDC Indl. Estate,
Raj, Sonapat, Haryana-131029
T: 0130-4017631 | M: +91 9819515656

Email/Website
info@med.co.in
meds@yaho.co.in
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TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/206		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tankage of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER-MBT (20mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova InfrasyS		
Sample No.	3		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	659.63	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

End of Report

Ravinder Kumar
Analyst
Checked by



Awechash Kumar Singh
Senior Technical Manager
Authorized Signatory

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Office
1-4, First Floor, Mukund House,
Azadpur, Delhi-110 033
T: 011-48018197 | M: +91 9871143795

Laboratory
Plot No. 42, HSIIDC Indl. Estate,
Raj, Sonapat, Haryana-131029
T: 0130-4017631 | M: +91 9210515656

Email/Website
info@med.co.in
meds@nvhco.com
www.med.co.in

TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/207		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tarikaga of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER (16mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova InfrasyS		
Sample No.	1		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	701.55	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
3	Percentage Elongation at maximum force	%	6.62	3.0 Min	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

*** End of Report***

Ravinder Kumar
Analyst
Checked by



Awakash Kumar Singh
Senior Technical Manager
Authorized Signatory

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T: 011-48018197 | M: +91 9871143795

Laboratory
Plot No. 42, HSIIDC Indl. Estate,
Raj, Sonapat, Haryana-131029
T: 0130-4017631 | M: +91 9819515656

Email/Website
info@med.co.in
meds@nvhq.com
www.med.co.in

TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/208		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Builet & Tarikaga of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER (16mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova InfrasyS		
Sample No.	2		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	719.43	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
3	Percentage Elongation at Maximum Force	%	8.01	3.0 Min	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

*** End of Report***

Ravinder Kumar

Analyst

Checked by



Awrochash Kumar Singh

Senior Technical Manager

Authorized Signatory

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Laboratory
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Raj, Sonapat, Haryana-131029
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meds@lthco.com
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TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/209		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tarikaga of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER (16mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova Infrasys		
Sample No.	3		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	679.66	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
3	Percentage Elongation at maximum Force	%	5.56	3.0 Min	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

*** End of Report***

Ravinder Kumar
Analyst
Checked by



Awrochash Kumar Singh
Senior Technical Manager
Authorized Signatory

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TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/210		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tankage of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject Testing of steel.		Date of Start	10/09/2024
Description of Sample: COUPLER-MBT (16mm)		Date of Completion	10/09/2024
Steel Make Rashmi		Ref. Date	10/09/2024
Coupler Make Nova InfrasyS			
Sample No. 1			
Grade Fe 500D			

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	700.51	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

End of Report

Ravinder Kumar
Analyst
Checked by



Awechash Kumar Singh
Senior Technical Manager
Authorized Signatory

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TEST REPORT

Page No. 1/1

Report No.: METL/24-25/264/211		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tankage of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER-MBT (16mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova InfrasyS		
Sample No.	2		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	720.39	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the Mechanical Spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

End of Report

Ravinder Kumar
Analyst
Checked by



Awechash Kumar Singh
Senior Technical Manager
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Page No. 1/1

Report No.: METL/24-25/264/212		Report Date	11/09/2024
Issued To: L & T Energy Hydrocarbon Ltd. IAVL-Bullet & Tankage of Boot Project, Extension of P-25 Project, IOCL, Refinery Panipat (Haryana)		Date of Receipt	10/09/2024
Ref. No.: N.A.		Date of Sampling	10/09/2024
Subject		Date of Start	10/09/2024
Testing of steel.		Date of Completion	10/09/2024
Description of Sample: COUPLER-MBT (16mm)		Ref. Date	10/09/2024
Steel Make	Rashmi		
Coupler Make	Nova InfrasyS		
Sample No.	3		
Grade	Fe 500D		

TEST RESULT

S.No.	Test Parameters	Units	Results	Requirement as per IS:16172 : 2023	Test Method
1	Static Tensile Strength	N/mm ²	721.42	Minimum 130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023
2	Location Of Failure	---	Inside the mechanical spliced	shall occur outside the mechanical Spliced in the bar, if tensile Strength is <130 % of specified grade of Yield Stress as per IS 1786 : 2008 RA - 2016	IS: 16172 : 2023

Remarks : The Submitted sample conforms to IS 16172: 2023 w.r.t above test.

Note:- The Submitted sample witness by L&T representative.

End of Report

Ravinder Kumar
Analyst
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Awechash Kumar Singh
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