



RESEARCH & DEVELOPMENT CENTRE FOR BICYCLE & SEWING MACHINE

(UNDP-UNIDO Assisted Punjab Govt. Project)

B-38-39, PHASE-V, FOCAL POINT, LUDHIANA-141010. (INDIA)

Tel. : 2672096-97 Fax : 91-161-2672098 E-mail : bsmcrd@gmail.com Website : www.bsrindia.org

No. 2K17/10

84344

Labs & Testing Deptt.

TEST CERTIFICATE

TC827519000003670F



Date : 14/09/2019

Name of Party : M/S MUNDHARA STEELS
KOHARA, LUDHIANA

Sample Receipt Date : 11/09/2019

Date of Testing : 14/09/2019

Work Order No. : 19SE-108/19SEP-62

Ref. Document : IS:8811-1998 TC-8

Lab Section : Spectro

Sample/Test Detail : STEEL SAMPLE

Element concentration in Percentage by weight (Ferrous)

SNo	C	S	P	Si	Mn	Ni	Cr	Mo	V	W	Co	Code
1	0.120	0.056	0.037	0.160	0.43	—	—	—	—	—	—	2A



Remarks : IS:8811-1998(RA-2018)

REF: FORGED CAP PUT LOG

Analysed by
14/09/19

ANALYSED BY

AUTHORISED SIGNATURE



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Labs & Testing Deptt.

TEST CERTIFICATE

TC827519000003671F

Date : 14/09/2019

Name of Party : M/S MUNDHARA STEELS
KOHARA, LUDHIANA

Sample Receipt Date : 11/09/2019

Date of Testing : 14/09/2019

Work Order No. : 19SE-108/19SEP-62

Ref. Document : IS:8811-1998

Lab Section : Spectro

Sample/Test Detail : STEEL SAMPLE

Element concentration in Percentage by weight (Ferrous)

SNo	C	S	P	Si	Mn	Ni	Cr	Mo	V	W	Co	Co
1	0.125	0.026	0.030	0.100	0.35	—	—	—	—	—	—	2B



Remarks : IS:8811-1998 (RA-2018)
REF: FORGED CAP PUT LOG

Panwar
14/09/19

ANALYSED BY

Authorised Signature
T. F. Singh
Manager



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Labs & Testing Deptt.

TEST CERTIFICATE

No. 2K17/10

Date : 14/09/2019

TC827519000003672F

Name of Party : M/S MUNDHARA STEELS
KOHARA, LUDHIANA
Work Order No. : 19SE-108/19SEP-62

Sample Receipt Date : 11/09/2019
Date of Testing : 14/09/2019
Ref. Document : IS:8811-1998

Lab Section : Spectro

Sample/Test Detail : STEEL SAMPLE

Element concentration in Percentage by weight (Ferrous)

SNo	C	S	P	Si	Mn	Ni	Cr	Mo	V	W	Co	Co
1	0.230	0.018	0.010	0.160	0.74	—	—	—	—	—	—	3A



Remarks : IS:8811-1998(RA-2018)

REF: FORGED CAP BRC

ANALYSED BY

AUTHORISED SIGN



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Labs & Testing Deptt.

TEST CERTIFICATE

TC827519000003673F

Date : 14/09/2019

Name of Party : M/S MUNDHARA STEELS
KOHARA, LUDHIANA
Work Order No. : 19SE-108/19SEP-62

Sample Receipt Date : 11/09/2019
Date of Testing : 14/09/2019
Ref. Document : IS:8811-1998

Lab Section : Spectro

Sample/Test Detail : STEEL SAMPLE

Element concentration in Percentage by weight(Ferrous)

SNo	C	S	P	Si	Mn	Ni	Cr	Mo	V	W	Co	Cu
1	0.075	0.026	0.038	0.090	0.34	—	—	—	—	—	—	3B



Remarks : IS:8811-1998(RA-2018)

REF: FORGED CAP BRC

Analysed by
14/09/19
ANALYSED BY

AUTHORISED SIGNATURE

Date : 16/09/2019

Name of Party : M/S MUNDHARA STEELS
KOHARA, LUDHIANA.

Work Order No. : 19SE-108/19SEP-62NN
MECHANICAL TEST LAB

Lab Section :

Sample Receipt Date :

Date of Testing :

Ref. Document :

Sample/Test Detail :

11/09/2019

16/09/2019

BS EN74-1:2005

RIGHT ANGLE
COUPLER

FAILURE TEST FOR RIGHT ANGLE COUPLER (DROP FORGED), CLASS-B

TEST DESCRIPTION

SPECIFIED VALUE

OBSERVED VALUE

TIGHTENING TORQUE

50Nm(Min.)

50Nm

INITIAL FORCE

1.0KN in 15 sec.and
hold for 1Min.('0+15sec.)

1.0KN

RETIGHTENING TORQUE

50Nm(Min.)after
releasing the force

50Nm

FORCE APPLIED FOR
FAILURE TEST

30.0KN in 90 sec.and
hold it for 1Min.('0+15sec.)
SHOULD BE SATISFACTORY

30.0 KN

SATISFACTORY

REMARKS:- NIL.





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Tel. : 2672096-97 Fax : 91-161-2672098 E-mail : bsmcrrd@gmail.com Website : www.bsrdindia.org

No. 2K19/02

165281

Labs & Testing Deptt.

TEST CERTIFICATE

Date :

16/09/2019

Name of Party :

M/S MUNDHARA STEELS

Work Order No. :

KOHARA, LUDHIANA.

19SE-108/19SEP-62NN

Lab Section :

MECHANICAL TEST LAB

Sample Receipt Date :

11/09/2019

Date of Testing :

16/09/2019

Ref. Document :

BS EN74-1:2005

Sample/Test Detail :

RIGHT ANGLE

COUPLER

SLIP LOAD TEST FOR RIGHT ANGLE COUPLER (DROP FORGED),

CLASS-B

TEST DESCRIPTION

SPECIFIED VALUE

OBSERVED VALUE

TIGHTENING TORQUE

50Nm(Min)

50Nm

INITIAL FORCE

1.0KN in 15 sec and
hold for 1Min. (-0+15sec)

1.0KN

RETIGHTENING TORQUE

50Nm(Min.)after
releasing the force

50Nm

FORCE APPLIED FOR SLIP TEST

10.0KN in 30 sec.and
hold it for 1Min (-0+15sec)
Amount of slip 'Δ1 (7.0mm Max)

10.0KN

0.80MM

FORCE APPLIED FOR SLIP TEST

15.0KN in 30 sec.and
hold it for 1Min. (-0+15sec.)
Amount of slip 'Δ2 (2.0mm Max)

15.0KN

0.20mm

REMARKS:- NIL

Analysed By
Nameet Singh
16/09/19
Ludhiana

Authorised Signature
Vijay Singh
Ludhiana