

INDIAN RAILWAY
CLW/CRJ

Sub:- Proposed Updated **conversion list** of **Australian Standard (AS)** for **Steels** as mentioned in **ABB drawings** to latest **Indian Standard (IS & IRS)** according BIS & IRS to be written at CLW drawings.

Ref:- (i) Australian standard as written in material specification column of ABB drawings.
(ii) Advice of CDE to update the existing list.

TENTATIVE CONVERSION LIST

SN	Australian standard written in ABB Drawings		Latest Equivalent Indian Standard may be used		Remarks
	Specification	Grade Designation	Specification	Grade Designation	
1.	AS 3678	250	IS 2062:2011	E-250 Cu Quality-C Killed Normalized	Yield Stress- 250 MPa Quality C- Impact test mandatory at -20°C
2.	AS 3678	350	IS 2062:2011	E-350 Cu Quality-C Killed Normalized	Yield Stress- 350 MPa Quality C- Impact test mandatory at -20°C
3.	AS 3678	350 L15	IS 2062:2011	E-350 Cu Quality-C Killed Normalized	
4.	AS 3679	250	IS 2062:2011	E-250 Cu Quality-C Killed Normalized	
5.	AS 3679	350	IS 2062:2011	E-350 Cu Quality-C Killed Normalized	Yield Stress- 350 MPa Quality C- Impact test mandatory at -20°C
6.	AS 3679	350 L15	IS 2062:2011	E-350 Cu Quality-C Killed Normalized	Yield Stress- 350 MPa Quality C- Impact test mandatory at -20°C
7.	AS 1594	HU I	IS 1079:2017	HR2	
8.	AS 1594	HA 200	IRS M-41-97	Grade-I Hot Rolled	IRS M41:97 is corrosion resistant steel containing Cr, Ni, Mo, V, Al, Nb
9.	AS 1594	HU 250	IRS M-41-97	Grade-I Hot Rolled	
10.	AS 1594	HU 300	IRS M-41-97	Grade-I Hot Rolled	
11.	AS 1594	HA 350	IRS M-41-97	Grade-I Hot Rolled	
12.	AS 1442	1016	IS 4432:1988	15 C8	
13.	AS 1442	1035	IS 5517:1993	35 C8	
14.	AS 1442	1045	IS : 1570 (Part 4) -1988	47 C15	

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	Specification	Grade Designation	Specification	Grade Designation	
15.	AS 1442	1020	IS : 1570 (Part 4) -1988	27 C15	
16.	AS 1443	1020	IS 2062:2011	E-250 Quality-A Killed Normalized	Quality A- Impact test not required
17.	AS 1443	1030	IS 2062:2011	E-350 Quality-A Killed Normalized	Quality A- Impact test not required
18.	AS 1444	CS1030	IS 2062:2011	E-250 Quality-A Killed Normalized	
19.	AS 1444	4140	IS 5517:1993	40Ni ₆ Cr ₄ Mo ₃	
20.	AS 1444	5145 H	IS 5517:1993	45 C8	
21.	AS 1163	C 350	IS 4923:2017	YST 310	

NOTE:-

1. **Latest** Indian standards compared with **latest** Australian standards in respect of **scope, chemical composition, mechanical properties and the type of items** used in 3-Ph locomotives.
2. IS 8500:1991 is superseded by IS 2062:2006 as per BIS.
3. IS 513:2008 is withdrawn by BIS in 2013 & superseded by none.