



REV.	ITEM	DATE	DESCRIPTION	CHK	APP	DATA
00			ORIGINAL ISSUE			
01	NOTE 7-89	05.04.11	1. IN NOTE 7 - SOLID WHEEL SHALL BE DELIVERED WITHOUT SCREW PLUG AND SEALING RING HAS BEEN CHANGED TO WITH SCREW PLUG AND SEALING RING 2. IN NOTE 9 - THE UNDERLINED VALUE SHOULD BE TAKEN FOR REFERENCE			

ITEM	DESCRIPTION	QTY	UNIT	REMARKS
3	SCREW PLUG	1	8/RS/5008	ITEMS-21
2	WASHER	1	8/RS/5007	OU
1	WHEEL, FORGED STEEL	1	8/RS/5006	MS 819A1 (Part-4)

TITLE
WHEEL, FORGED STEEL
(NEW WHEEL PROFILE)

ROLLING STOCK

DELHI METRO RAIL CORPORATION

MRM'S REF. NO. EFO1092-000

SCALE 1/1

DWG. No. 8/RS/5006

SHEET 1 OF 1

NOTE

1. ANY SLIGHT TAPER WITHIN THE PERMITTED TOLERANCE SHALL BE ON THE CONDITION THAT THE LARGER DIAMETER IS AT THE INBOARD SIDE OF THE HUB.
2. THE DRAWING IS ALSO VALID FOR DELIVERY OF SEPARATE SOLID FORGED WHEELS WITH ROUGH BORE Ø203±0.5, ROUGHNESS Ra 12.5, WEIGHT 333 kg.
3. MAXIMUM STATIC IMBALANCE IS 125 gm (E3).
4. THE SOLID WHEEL IS SPECIFIED FOR LOAD OF AXLE 18,268 t.
5. WHEEL MARKING DRG. No. 8/RS/5009
6. TWO COATING SYSTEM (PRIMER COAT, FINAL COAT), COLOR OF NCS 8500N FOR WHEEL EXCEPT WHEEL BORE AND WHEEL TREAD.
7. SOLID WHEEL SHALL BE DELIVERED WITHOUT SCREW PLUG AND SEALING RING SHALL BE DELIVERED SEPARATELY.
8. TIGHTENING TORQUE OF THE SCREW PLUG IS 20 Nm.
9. DIAMETER OF WHEEL SHALL BE DIVIDED INTO TWO GROUPS, Ø860+0.2/0 AND Ø861+0.2/0 mm AND NUMBER OF WHEEL PER GROUP SHALL BE CONTROLLED BY ONE BOGIE SET.
9. TENSILE STRENGTH: 900-1100 N/mm² (for value of Tensile Strength for ER8 grade refer clause 3.2.1.1 table 2 of EN13262:2004)
9. HARDNESS: 300-341 HRB (for value of Hardness for ER8 grade refer clause 3.2.2.1 Table 3 Category 2 of EN13262:2004)
- 3.2.2.1 Table 3 Category 2 of EN13262:2004
- CARBON CONTENT IN THE LADLE ANALYSIS AND THE PRODUCT ANALYSIS: 0.63% MAX.
- MANGANESE CONTENT IN THE LADLE ANALYSIS AND THE PRODUCT ANALYSIS: 0.83% MAX.
- (for value of Carbon and Manganese content for ER8 grade refer clause 3.1.1 Table 1 respectively of EN13262:2004)

10. *MARKED AREA SHOULD NOT BE PAINTED BUT BE COVERED WITH ANTI-CORROSION MATERIAL.

*MARKED AREA SHALL BE PAINTED AFTER WHEEL-SET ASSEMBLY.