

HALF SECTION AT CENTRE HALF SECTION AT SUPPORT

ELEVATION

BOTTOM PLAN

DETAILS OF BALLAST RETAINER

BAR BENDING SCHEDULE FOR BALLAST RETAINER						
BAR MARK	DIA OF BAR	LENGHT mm	TOTAL NOS. REQUIRED	BENDING SHAPE DIMENSION SHOWN ARE OVER OUTER EDGES	WEIGHT PER METER IN Kg.	TOTAL WEIGHT IN Kg.
P	10	4125	25		0.617	63.63
q	10	867	25		0.617	13.38
r	25	4140	8		3.85	127.51
s	12	3990	16		0.888	56.69
u	10	415	75		0.617	19.20
h1	32	1269	2		6.31	16.02

POSTION OF LIFTING HOOK (h1)

NOTES:

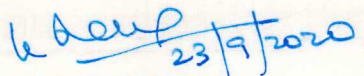
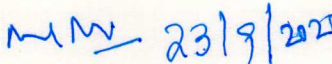
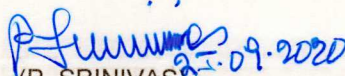
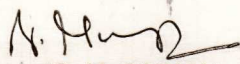
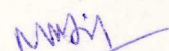
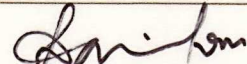
1. **All Dimensions** are IN **Millimeters**.
2. Drawing **Not to be Scaled**, only written Dimensions to be followed.
3. All corners shall have **chamfer of 25mm**.
4. Concrete for Ballast Retainer shall be of **Grade M-35**.
5. Steel shall be of High Strength Deformed (**HSD/TMT Bars, Fe-415 OR** Higher Grade Confirming to **IS 1786:2008** shall be used.
6. Units shall be provided with a **Uniform Bedding** by placing it over a layer of cement and cast iron borings in 1:1 proportions the paste should be of uniform consistency.
7. A layer of suitable **Water Proofing** treatment may be provided over ballast retainer.
8. All **Bends and Hooks** should be of standard confirming to **IS:2502-1963**.
9. For 3.05m Span Pre Tensioned PSC Slab refer: **RDSO - BA-10259 ALT.1**
10. Weight of Ballast Retainer unit is 4.34 t.

REFERENCES:

1. **I.R.S Concrete Bridge Code 2014** (Revised) including latest ACS read in conjunction with relevant I.S Specifications mentioned therein.
2. **I.R.S Bridge Rules - 2014** including latest ACS.
3. Indian Railways Unified Standards Specification for materials and work 2019.
4. Engineering Standing Order No: 87 Dated 21.05.2020.

FOOTPATH:

1. RCC Footpath shall be provided adjacent to the Ballast Retainer.
2. For 'h' Type Footpath (to be cast separately) refer to Drg.No: GM(W)SC/BR/TR/RCC/STD/148/2020.

<u>SOUTH CENTRAL RAILWAY</u>	
<u>DRG. NO.</u>	GM(W)SC/BR/TR/RCC/STD/ 157. /2020
(DRAWING NOT TO SCALE)	
DETAILS OF ARRANGEMENT FOR BALLAST RETAINER FOR PRE-TENSIONED PSC SLAB WITH 2-UNITS SPAN - 3.05m (RDSO - BA-10259 ALT.1) FOR 25t - 2008 LOADING STD.	
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