

Fax: +91-522-2452332 E-mail: triambak.tiwari@gov.in Mob: 9794863310	 सत्यमेव जयते	भारत सरकार, रेल मंत्रालय, अनुसंधान अभिकल्प और मानक संगठन, लखनऊ-226011 Government of India - Ministry of Railways Research Designs & Standards Organisation LUCKNOW – 226011	
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No: RDSO-SIG0BPAC(DELT)/1/2020

(Through email)

Date: As signed

M/s Deltron Equipment and System Private Limited

26, Convent Road, Kolkata-700014

(E-mail: deltron.india@gmail.com)

Sub: Approval for performance assessment field trial of Electronic Block Logic Modules (EBLM) make- M/s Deltron Equipment and System Private Limited

Ref: i) This office letter No. STS/E/BPAC using UFSBI/EBLM Vol.-3 dated: 10.11.2017
 ii) Firm's letter No- DES/RDSO/F-11(iii)/008/2020-21, dated 30.09.2020.
 iii) This office letter No-STS/E/BPAC using UFSBI/EBLM Vol-8 dated: 03.11.2020
 iv) Firm's letter No- DES/RDSO/F-11(iii)/018/2020-21, dated 16.12.2020.
 v) This office letter No-RDSO-SIG0BPAC(DLEB)/1/2020 dated:05.05.2021
 vi) Firms letter No-DES/RDSO/F-11(iii)/001/2023-24dated:27.06.2023
 vii) Firm's letter No- DES/RDSO/F-11(iii)/002/2023-24 dated: 07.07.2023
 viii) This office letter No. RDSO-SIG0BPAC (DELT)/1/2020, dated: 03.10.2023.
 ix) Firm's letter No- DES/RDSO/F-11(iii)/008/24-25, through email dated 27.02.2025
 x) CSE/ER letter No.- SG.80/0/1, Kolkata, dated- 05.06.2025

Vide references above, after successful type test, ISA assessment and initial trial including parallel, series and stand-alone trials of Electronic Block Logic Modules (EBLM), developed by M/s Deltron, as per provisions given in clause no. 3.8.1 of the specification IRS: S-105/2012 Ver. '0', competent authority has approved its use for conducting performance assessment field trial of maximum 20 pairs for minimum 40 equipment months as per clause 34 of work instruction for vendor approval documents no. SI-WI-8.1-3 Ver.-2.2. Further action on this will be taken as per the result of this performance assessment field trial.

This is for your kind information and necessary action please.

(Triambak Tiwari)
 Director/signal –II
 For Director General/S&T

DA- Part list (Annexure-I)
 Copy to:

All PCSTEs of Zonal Railways ED/QA/S&T/RDSO/Kolkatta	For kind information please.
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Annexure-I

1. Part list of Block Proving Axle Counter (BPAC) with UFSBI for Double Line:

Sr. No.	Item	RDSO Version No.	Qty	Remarks
1.	Block Panel for DL as per RDSO Drg nos: RDSO/S/32017	D01 H01	2 Nos.	One for each station
2.	Wired Relay Rack consisting of RDSO approved UFSBI and RDSO approved & pre inspected Relays with bases. The wiring shall be as per RDSO Drg nos : RDSO/S/32018 Or Electronic Block logic Modules (EBLM) Type- DESBPACBLM v2 with 5 Relays as- BIPR1, BIPR2, TGTR, TCFR & ASCR	D01 H01 D01 H01	2 Nos. 4 Nos	One for each station Two for each station.
3.	Block Telephone as per RDSO/SPN/191/2006		2 Nos.	One for each station
4.	Universal Fail-Safe Block Interface as per point 3 below.	D02 S002 H03	2 Nos.	One for each station
5.	User Manual		2 Nos.	One for each station

2. Part list of Block Proving Axle Counter (BPAC) with UFSBI for Single Line:

Sr. No.	Item	RDSO Version No.	Qty	Remarks
1.	Block Panel for DL as per RDSO Drg nos: RDSO/S/32019	D01 H01	2 Nos.	One for each station
2.	Wired Relay Rack consisting of RDSO approved UFSBI and RDSO approved & pre inspected Relays with bases. The wiring shall be as per RDSO Drg nos : RDSO/S/32020 Or Electronic Block logic Modules (EBLM) Type- DESBPACBLM v1 with 5 Relays as- BIPR1, BIPR2, TGTR, TCFR & ASCR	D01 H01 D01 H01	2 Nos. 4 Nos	One for each station Two for each station.

3.	Block Telephone as per RDSO/SPN/191/2006		2 Nos.	One for each station
4.	Universal Fail-Safe Block Interface as per point 3 below.	D02 S002 H03	2 Nos.	One for each station
5.	User Manual		2 Nos.	One for each station

3. UFSBI as per specification IRS:S- 104

Details of UFSBI system manufactured by M/s Deltron, Kolkata is given below-

UFSBI system: DES/UFSBI,

Version: D02 S002 H03

Checksum: b7 0e

Terms and conditions:

- a. The firm's name, ownership and addresses have not been changed. In case of any change in above the same should be promptly communicated to the issuing authority for appropriate action. Failing to do so may result in immediate delisting of the firm.
- b. The machinery plant and infrastructure used in manufacture is not changed.
- c. Production design, bill of material is not changed.
- d. Product shall meet the requirements specified in the drawing/specification, unless specific deviation is granted.
- e. Notwithstanding this approval, firm is wholly and completely responsible for quality, performance, reliability and life of the item/items supplied by them.
- f. The firm shall abide by the instructions contained in the vendor approval guidelines of the Signal Directorate of RDSO.
- g. The firm shall ensure compliance to the conditions given in the purchase order(s) of Railway Board/ Zonal Railways/Production Units.
- h. Quality documents approved by RDSO shall be made available to the inspection agency at the time of inspection.
- i. RDSO reserves the right to withdraw the approval granted at any time without assigning any reason there to.
- j. No modification without prior permission/approval from RDSO is permitted in design (Hardware/Software), process, raw material/components, engineering and/or facilities in the approved model subsequent to the issue of this certificate. Any modification in the product without prior permission/approval of RDSO shall lead to the cancellation of approval.
- k. Manufacturer shall replace the supplied material free of cost in case of any manufacturing defect.
- l. RDSO reserves the right to inspect this product at any premises where it is in use or at the place of manufacturer. If any deterioration of performance of the approved product is noticed during use, RDSO reserves the right to cancel the approval.
- m. In case of any dispute, verdict of the competent authority of RDSO shall be final and binding on the manufacturer.
- n. Approval maybe withdrawn and penal action may be taken in case of tampering of documents noticed at any point of time based on which approval has be sought from RDSO.
- o. Design, Software and Hardware versions are as indicated in the enclosed part list (Annexure-I). The firm should ensure that this is engraved/ screen printed on equipment/cards/parts.
- p. The details of approved hardware and software checksums (as applicable) are given in annexure-I.