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Email: dsig6@rdsso.railnet.gov.in
dsig6rdsso@gmail.com

No: STS/E/UFSBI/Deltron Vol. XI

Date: 12.01.2016

M/s Deltron Equipment Systems Pvt. Limited,
26 Convent Road,
Kolkata-700 014

Sub: Universal Fail Safe Block Interface (UFSBI) of M/s Deltron Equipment & Systems Pvt. Limited, 26 Convent Road, Kolkata to RDSO Specification IRS:S-104/2012 Ver. '0'.

Ref: (i) This office letter no. STS/E/Foffis/UFSBI Deltron Dt. 30.11.2012 (copy enclosed).
(ii) Firms letter no. DES/RDSO/F-11(i)/012/2014-15 dt. 08.01.2015.
(iii) Firms letter no. DES/RDSO/F-11(i)/012/2015-16 dt. 15.12.2015.

Vide ref. (i) M/s Deltron Equipment & Systems Pvt. Limited, 26 Convent Road, Kolkata, was approved for use of Universal Fail Safe Block Interface (UFSBI) with-

- (a) Single Line daido handle type tokenless block instrument.
- (b) Single Line Neal's tokenless block instrument.
- (c) Double Line SGE block instrument.
- (d) Block Proving by Axle Counter (BPAC) and Failsafe Multiplexer for 16 I/O.

In addition to above, M/s Deltron Equipment & Systems Pvt. Limited, Kolkata is hereby approved for use of Universal Fail Safe Block Interface (UFSBI) in Intermediate Block Signalling (IBS) applications also.

The other terms and conditions of letter under ref. (i) shall remain same.

DA: As above.

(H.O. Kushwaha)
Director/Signal-VI
For Director General/Signal

Copy to:

1. The General Manager/S&T
The General Manager/S&T/(Const.) &
The General Manager(Store)
Central Rly., Mumbai CST-400001
Western Rly., Churchgate, Mumbai-400020
Eastern Rly., Fairlie Place, Kolkata-700001
South Eastern Rly., Garden Reach, Kolkata-700043
Northern Rly., Baroda House, New Delhi-110001
North Eastern Rly., Gorakhpur-273012

North East Frontier Rly., Maligaon, Guwahati-781011

Southern Rly., Park Town, Chennai-600003

South Central Rly., Secunderabad-500371

East Central Rly., Hajipur

East Coast Railway, Rail Vihar BDA Rental Colony, Chandrasekharpur, Bhubneshwar-751023

North Central Railway, Hasling Road, Allahabad

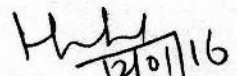
North Western Railway, Jaipur-300206

South Western Railway, Club Road, Keshavapur, Hubli-23

West Central Railway, OSD Office, Jabalpur

South East Central Railway, R.E. Office Complex, Bilaspur-495004

2. Secretary/Signal, Railway Road, Rail Bhawan, New Delhi
3. (Stores), Railway Board, Rail Bhawan, New Delhi
4. Secretary/S&T (RE), Railway Board, Rail Bhawan, New Delhi
5. The General Manager/S&T, Metro Railway, 23-A, Jawaharlal Nehru Road, Kolkata-071
6. The General Manager/S&T, CORE, Nawab Yusuf Ali Road, Civil Lines, Allahabad
7. The General Manager, Konkan Railway Corpn. Ltd., Belapur Bhavan, Sector-II, CBD, Belapur, New Mumbai-400614
8. The General Manager/S&T, IRCON, Palika Bhavan, Sector XIII, R.K. Puram, New Delhi-66
9. The General Manager/S&T, RITES Ltd., RITES Bhawan, 5th Floor, Plot No. 1, Sector-29, Gurgaon-122 001
10. The Director, IRISSET, Tarnaka Road, Lallaguda (P.O.) Secunderabad-500017
11. The Principal, Railway Staff College, Vadodara
12. The CSTE, Delhi Metro Rail Corporation, 3rd Floor, NBCC Place, Bhishampitamah Marg, New Delhi-110003
13. Executive Director(QA/S&T), RDSO, Lucknow
14. Executive Director(Telecom), RDSO, Lucknow
15. Director/Inspn./S&T, RDSO, Ground Floor, DRM Office Building, Bangalore-23
16. Director/ Inspn./S&T, RDSO, 1st Floor, IRCOT Building, Shivaji Bridge, New Delhi-01
17. Director/Inspn./S&T/RDSO, 1st Floor, New Annexe Building, Western Railway, Churchgate, Mumbai-400 020
18. Director/Inspn./S&T/RDSO, 4th Floor, 17 N.S. Road, West Wing, Fairlie Place, Kolkata-700 001


(H.O. Kushwaha)

Director/Signal-VI
For Director General/Signal

Fax : 91-522-2452332
Telephone: 0522-2451200
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भारत सरकार – रेल मंत्रालय
Government of India - Ministry of Railways
अनुसंधान अधिकल्प और मानक संगठन
Research Designs & Standards Organisation
मानक नगर, लखनऊ-226011
Manak Nagar, LUCKNOW – 226011

No. STS/E/Foffis/ UFSBI Deltron Vol-VII

Dated: 07.01.2011

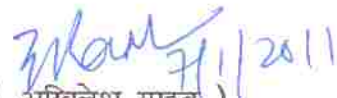
MAINTENANCE TYPE APPROVAL CERTIFICATE

1.	Description of product	Universal Fail Safe Block Interface (UFSBI) to RDSO Specification No. RDSO/SPN/147/2005 withamndt-1 as per part- list in Annexure I .
2.	Name of the Manufacturer	M/s Deltron Equipment & Systems Pvt Limited,
3.	Address (Head Office)	26 Convent Road, Kolkata – 700 014
4.	Address (Works)	17, Canal Street, Kolkata – 700 014
5.	Telephone No.	Office: 033 – 2265 1778, 033 – 2265 5903 Works/Factory: 033 – 2217 6467
6.	Fax No.	Office. : 033 – 2265 5903
7.	E mail address	sales@des-india.com
8.	Type	"Universal Fail Safe Block Interface" (UFSBI)
9.	Tested by	RDSO/LKO
10.	Tested to Specn. No./RDSO Drg No.	RDSO/SPN/147/2005 with amendment-1 .
11.	Critical Raw Material/Component used	Nil
12.	Type Approval Valid up to:	31st AUGUST, 2012
13.	Status	Part - II

This type approval to the firm is for supply of the product as mentioned above with the following terms & conditions:

1. The UFSBI shall work with single line Daido handle type tokenless block instrument, single line Neal's tokenless block instrument, double line SGE block instrument and Block Proving by Axle Counter (BPAC).
2. No modification without necessary 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 shall lead to he cancellation of type approval.
3. During the validity of approval, 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.

4. In case of any dispute at any stage during the validity of this approval, verdict of the competent authority of RDSO shall be final and binding on the manufacturer.
5. It shall be the responsibility of firm to send samples for renewal of type approval at least 6 months in advance before the expiry of the validity and no notice shall be issued to the firm.
6. The equipment has to be installed / commissioned by the manufacturer or the personnel certified by the manufacturer as trained for installation & commissioning of this equipment.
7. The software checksum of Universal fail safe Block Interface [ver: D02 S002 H03] of M/s Deltron make is 'B7 0E'.


 (अखिलेश यादव)

निदेशक/सिगनल
 कृते महा निदेशक/सिगनल

Copy to:

1. **The General Manager/S&T,
The General Manager/S&T/(Const)., &
The General Manager (Stores):**
 Central Rly., Mumbai, CST - 400001
 Western Rly, Churchgate, Mumbai - 400020
 Eastern Rly., Fairlie Place, Kolkata 700001
 South Eastern Rly., Garden Reach, Kolkata - 700043
 Northern Rly. Baroda House, New Delhi- 110001
 North Eastern Rly., Gorakhpur- 273012
 North East Frontier Rly., Maligaon, Guwahati - 781011
 Southern Rly. Park Town, Chennai - 600003
 South Central Rly., Secunderabad - 500371
 East Central Railway, Hajipur.
 East Coast Railway, Rail Vihar BDA Rental Colony, Chandrasekharapur,
 Bhubneshwar - 751023
 North Central Railway, Hastings Road, Allahabad.
 North Western Railway, Jaipur - 300206
 South Western Railway, Club Road, Keshavapur, Hubli - 23
 West Central Railway, OSD Office, Jabalpur
 South East Central Railway, R.E. Office Complex, Bilaspur - 495004
2. **Secretary /Signal, Railway Board, Rail Bhawan, New Delhi**
3. **(Stores), Railway Board, Rail Bhawan, New Delhi.**
4. **Secretary/S&T (RE), Railway Board, Rail Bhawan, New Delhi.**
5. **The General Manager/S&T, Metro Railway, 23-A, Jawaharlal Nehru Road,
Kolkata - 700071**
6. **The General Manager/S&T, CORE, Nawab Yusuf Ali Road, Civil Lines, Allahabad.**
7. **The General Manager, Konkan Railway Corpn. Ltd., Belapur Bhavan, Sector-II,
CBD, Belapur, New Mumbai - 400614.**
8. **The General Manager/S&T, IRCON, Palika Bhavan, Sector XIII, R.K. Puram,
New Delhi - 66**
9. **The General Manger/S&T, RITES Ltd., RITES BHAWAN, 5th Floor, Plot No. 1,**

- Sector 29, Gurgaon – 122 001.
10. The Director, IRISSET, Tamaka Road, Lallaguda (P.O), Secunderabad – 500017
 11. The Principal, Railway Staff College, Vadodara.
 12. The C.S.T.E., Delhi Metro Rail Corporation, 3rd Floor, NBCC Place, Bhishampitamah Marg, New Delhi – 110003.
 13. Executive Director (QA-S&T), Quality Assurance Cell, RDSO, Lucknow
 14. Executive Director/Telecom, RDSO, Lucknow
 15. Director/Inspn/S&T/RDSO, Ground floor, DRM Office Bldg., Bangalore-23.
 16. Director/Inspn./S&T, RDSO, 1st floor, IRCOT Building, Shivaji Bridge, New Delhi 110001.
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 18. Director/Inspn/S&T/RDSO, 4th floor, 17 N.S Road West Wing, Fairlie Place, Kolkata- 700 001
 19. M/s Deltron Equipment & Systems Pvt Limited, 26 Convent Road, Kolkata 700 014.

Handwritten signature: Z. K. Singh
(अखिलेश यादव)
निदेशक/सिगनल
कृते महा निदेशक/सिगनल

Annexure- I to letter No. STS/E/Foffis/UFSBI-Deltron Vol-VII Dated: 07.01.2011

1. Part list of UFSBI system manufactured by M/s Deltron, Kolkata is given below-

UFSBI system : DES/UFSBI
Version : D02 S002 H03
Checksum: B7 0E

SN	Details of UFSBI cards	Part ID
1	Input card	Deltron/UFSBI/Input
2	CPU Card	Deltron/UFSBI/CPU
3	Output card	Deltron/UFSBI/Output
4	Communication & Control cards	Deltron/UFSBI/CC
5	DC – DC Conv Module	Deltron/DC-DC con/OS
6	Mother Board	Deltron/UFSBI/Backplane
7	Power Supply Monitor Card (PS MON)	Deltron/UFSBI/PS Mon
8	Single CPU failure Detection Card (SCFD)	Deltron/UFSBI/SCFD
9	Modem card	Deltron/Modem
10	Reset Box	DES/Reset Box
11	UFSBI Alarm Panel	DES/ALM-PNL
Additional Cards required for working with Handle type Tokenless Single Line Block Instrument		
1	PSM Card	Deltron/UFSBI/PSM
2	TX card	DCC /Tx
3	Rx Card	DCC/Rx
4	Driver Card	DCC Driver
Additional Cards required for working with Neal's Tokenless Single Line Block Instrument		
1	PSM Card	Deltron/UFSBI/PSM

W. R. G. 7/1/2011