

**Voice frequency communication system for underground quad cable  
as per specification no. RDSO/SPN/TC/34/2002**

**Information to be supplied by the purchaser:-**

1. The specification covers some variation/ options which are summarised below for ready reference:-
2. The Way Station Equipment and Test Room Equipment of different manufacturers may differ in the type of station telephones connected with control circuits as following three types of telephone equipments may be used as station telephones -
  - a. 4W Control Telephone to spec. IRS: TC 38-97
  - b. Modified 4W Control Telephone with in-built decoder
  - c. DoT type 2-wire telephone
3. The default type is Way Station Equipment and Test Room Equipment suitable for 4W Control Telephone to spec. IRS: TC 38-97. If other types are desired this should be clearly mentioned in the tender documents and accordingly the required type and quantity of station telephones may be mentioned in the ordering information table furnished below.
4. By default the Way Station Equipment is equipped with one no. decoder card which is sufficient for 2 nos. station telephones connected to one control circuit. If other control circuits are required to be equipped with station telephones two more such decoder cards may be connected with two other control circuits which may be ordered as required.
5. 8 Way Intercom equipment is also optional. This interfaces with DoT type 2-wire telephone only. Local telephones connected to 8 Way Intercom equipment can be dialled by Modified HQ Control Room Equipment with 2/3 digit dialling feature only. Therefore if Intercom equipment is opted then Modified DTMF HQ Control Room Equipment with 2/3 digit dialling feature may also be opted.

**Details of equipments required: -**

<b>SN</b>	<b>Type of equipment</b>	<b>Specification No.</b>	<b>Qty.</b>
1	a) DTMF HQ Control Room Equipment or b) Modified DTMF HQ Control Room Equipment with 2/3 digit dialling feature	IRS: TC 60/93  RDSO/SPN/TC/34/02 Ver.4	
2	Emergency Control room Equipment	IRS: TC 61 /93	
3	DTMF control room equipment with Emergency Control Room Equipment working and 2/3 digit dialling features.	RDSO/SPN/TC/34/02 Ver.4	
4	Test Room Equipment	RDSO/SPN/TC/34/02 Ver.4	

5	a) Way Station Equipment suitable for 4W Control Telephone to spec. IRS: TC 38-97 or b) Way Station Equipment suitable for Modified 4W Control Telephone with in-built decoder or c) Way Station Equipment suitable for DoT type 2-wire telephone	RDSO/SPN/TC/34/20 02 Ver.4  RDSO/SPN/TC/34/20 02 Ver.4  RDSO/SPN/TC/34/20 02 Ver.4	
6	a) 4W Control Telephone or b) Modified 4W Control Telephone with in-built decoder	IRS: TC 38-97  RDSO/SPN/TC/34/20 02 Ver.4	
8	DoT type 2-wire telephone	TEC spec. no. GR/TEL-02/04 SEP 2002 or latest	
9	8 Way Intercom equipment	RDSO/SPN/TC/34/20 02 Ver.4	
10	Additional Dual decoder card	RDSO/SPN/TC/34/20 02 Ver.4	
11	Type of mounting required on way station /test room equipment- wall/floor mounting	RDSO/SPN/TC/34/20 02 Ver.4	

- 1 Typical layout of the entire control section including sectional control tapping chart to assess configuration requirements.
- 2 Attenuation characteristics between two stations for all sections for equalization purpose. If these attenuation characteristics are not available, joint measurements for the same with the supplier/ manufacturer must be recorded.
- 3 Optional requirements (if any)
- 4 Balancing requirements.
- 5 Any other information.