

## GMRT Fiber Optic System Installation summary

Antenna -	Released by -	Date-
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Sr. No.	Visual inspection of rack - Antenna Base				
			Arrangement Required		
1	fiber optic splicing unit , relocation		yes	no	
2	Arrangement of holes on rack (10mm size) Quantity = 12nos		a. splicing unit	yes	no
			b. subrack	yes	no
			c. power supply	yes	no
3	Putting rail guide on to the rack		yes	no	
4	Placing dc power supply unit		yes	no	
5	AC distribution panel		yes	no	

Sr. No.	Antenna Base Units	Total No. req.	Installed Qty.
1	Optical Transmitter units	3	
2	RF amplifier	1	
3	optical Multiplexer unit	1	
4	Ethernet Transceiver unit	1	
5	DC Power supply unit	1	

Sr. No.	Receiver Room Units	Total No. req.	Installed Qty.
1	Optical Receiver	3	
2	Optical De-Multiplexer	1	
3	Ethernet Transceiver unit	1	
4	DC Power Supply	1	
5			

Sr. No.	Antenna Base - Accessories	Total No. req.	Installed Qty.
1	E2000-E2000 - 1meter patch cord	3	
2	E2000-E2000 - 2meter patch cord	1	
2	E2000- SCPC - 1meter patch cord	1	
3	SMA male to TNC Female panel mount cable - 300cm	2	
4	SMA male to SMA male - 300cm	2	
5	Optical attenuator dB	2 / 3	
6	Ethernet RJ45 shielded cable- 2meter	1	
7	5 pin audio male dc power cable - 2 meters	3	

Sr. No.	Receiver Room - Accessories	Total No. req.	Installed Qty.
1	E2000-E2000 - 1meter patch cord	4	
2	E2000- SCPC - 1meter patch cord	1	
2	SMA semi-rigid male to male cable - 50cm	3	
3	TNC male to Type N male - 2meter	2	
4	Ethernet RJ45 shielded cable- 2meter	1	
5	5 pin audio male dc power cable - 2 meters	5	
6			
7			

Sr. No.	DC Power Supply unit	O/P Voltage (+15V)	O/P Current mA	O/P Voltage (-15V)	O/P Current mA
1	DC Power supply @ Base				
2	DC Power supply @ Receiver Room				

Sr. No.	Optical Transmitter Unit @ Base	DC Bias Voltage (+2.2v)
1	Transmitter unit -1 (192.0)	
2	Transmitter unit -2 (192.2)	
3	Transmitter unit -3 (192.4)	
4	Transmitter unit -4 (192.6)	

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Unit	Antenna Base			Receiver Room				
	Tx Power	WDM common Out & Common In @ Base	To CEB WDM Mux O/P (4dB IL)	From Base combine Out	To WDM De-Mux Input 1550 IN (4dB IL)	Rx Power	Optical Attenuation Used	Set Optical Output power
	dBm	dBm	dBm	dBm	dBm	dBm	dB	dBm
Transmitter unit 1 (193.0)								
Transmitter unit 2 (193.2)								
Transmitter unit 3 (193.4)								
Transmitter unit 4 (193.6)								

1310nm Optical system	CEB Tx Power dBm	Base Rx Power dBm	Link loss dB

Frequency	FE Output		To OF-Tx RF Channel -1		Gain/ Loss dB	To ABR RF Channel -1		Gain/ Loss dB
	RF Power	Noise Floor	RF Power	Noise Floor		RF Power	Noise Floor	
MHz	dBm	dBm	dBm	dBm	dB	dBm	dBm	dB
150MHz								
233MHz								
327MHz								
610MHz								
1060MHz								
1170MHz								
1280MHz								
1390MHz								
1420MHz								

Frequency	FE Output		To OF-Tx RF Channel -2		Gain/ Loss dB	To ABR RF Channel -2		Gain/ Loss dB
	RF Power	Noise Floor	RF Power	Noise Floor		RF Power	Noise Floor	
MHz	dBm	dBm	dBm	dBm	dB	dBm	dBm	dB
150MHz								
233MHz								
327MHz								
610MHz								
1060MHz								
1170MHz								
1280MHz								
1390MHz								
1420MHz								

1GBE Optical Transmitter unit	Receiver Room		dBm	Antenna Base		dBm	Link loss dB
	Tx @ 1310nm			Rx @ 1310nm			
	RX @ 1550nm			Tx @ 1550nm			

