

STATUS REPORT

Organization:	Doordarshan		
Period:	September, 2019 to August, 2020	Date of Report:	11.11.2020

PART A

Technical Developments during the past year:

System upgrades/changes to practices for improved quality/efficiency

- (i) 3 Satellite channels (24X7 service) DD Chattisgarh, DD Jharkhand & DD Uttarakhand have been launched w.e.f. 01.04.2020 from DDKs Raipur, Ranchi and Dehradun respectively. These channels provide opportunity to the local talent in DD-Program of local interest and culture.
- (ii) During COVID-19 pandemic, 8 DDKs (Shimla, Hissar, Panaji, Aizwal, Agartala, Shillong, Imphal & Kohima) started 24X7 satellite service.
- (iii) New channel "DD Retro" having 24X7 service started from CPC, Delhi.
- (iv) Studio centres at 20 locations modernized by providing Analog & Digital Peripherals, HD Camcorder and HD Recorder/ Deck.
- (v) New Earth station has been setup at DDK Gorakhpur. Earth station is in (1+1) configuration & equipped with state of art MPEG-2/MPEG-4 compliant SD/HD compression chain and spectrum efficient DVB-S/DVB-S2 compliant RF chain equipment.
- (vi) 'Direct View LED based Video wall' has been installed at studios in DDK Mumbai & DDK Chennai. The induction of Video Walls have enhanced the look and feel of the set and overall production quality.
- (vii) Earth stations at Mumbai modernized with state-of-the art spectrum efficient and HD compliant equipment.
- (viii) Program Service at 503 Analog Terrestrial Transmitters has been migrated from DD National/DD News to respective state Regional Service w.e.f. 15/07/2020.

- **New Services/new projects initiated**

- **Pilot Project for File Based Workflow at DDK Hyderabad**

It will provide a tapeless and efficient workflow of content during production.

- **HDTV**

Following HDTV projects are presently under implementation:

- HD up-gradation of existing technical facilities at DDK Delhi, DD News and CPC Delhi (All 7 channels from Delhi would become HD) are under various stages of implementation

- **DTH expansion**

DD Free Dish DTH Platform has been upgraded for 112 TV Channels, using MPEG-4 DVB-S2 Technology.

Further upgradation of DTH Platform using spectrum efficient equipment to increase DTH platform capacity is under process (technical evaluation completed for upgradation of 2 compression chains). On implementation of this scheme, DD DTH platform would be upgraded from 112 TV channel to 120 SDTV channel and also be capable to uplink HDTV channels in HEVC compression format. Installation of equipment is under progress for SITC of (3+1) RF Chain.

DD Free Dish DTH platform is further planned to be expanded to 250 TV channels.

- **Augmentation, Modernization & Replacement of Transmitter, Studio and satellite broadcast equipment**

The various projects presently under implementation are given below:

- HPTs at Rajouri (DD National & DD News) and Patnitop, Himbotingla & Green Ridge (Strengthening of Border areas coverage) – HPTs under installation at Patnitop, Himbotingla & Green Ridge. Purchase order placed for procurement of HPTs at Rajouri
- Commissioning of RF Network Planning & Optimization System to carry out coverage prediction & reception survey of transmitter.
- Commissioning of permanent HPT set up at Amritsar (Increase in Coverage areas of terrestrial transmission) – balance tower work under progress.
- Modernization of Earth Station at 11 locations (Kolkata, Bhubaneswar, Lucknow, Ahmedabad, Chennai, Thiruvananthapuram, Bhopal, Jaipur, Jalandhar, Jammu & Shimla) is under progress.
- Distribution of 1,20,000 DTH receive set in Remote, Tribal & LWE areas (People in specific areas will be able to receive DD DTH signals) – technical evaluation completed.

• **Transmission network**

For terrestrial transmission, 590 transmitters of varying power, installed throughout length and breadth of the country are in operation. Break up of these transmitters is as under:

Details of transmitters	HPTs	LPTs	VLPTs
DD National channel transmitters	5	4	19
DD News channel transmitters	26	1	6
Regional Service	110	396	
Digital transmitters (DTTs)	23	-	-

HPTs - 1kW/5kW/10kW/20kW/30kW
 LPTs - 100 W/ 300 W/ 500 W
 VLPTs - 10 W/ 50 W
 DTTs – 6 kW

In satellite mode, the signals of Doordarshan channels are available to the entire country.

Coverage %		Radio	Television (Satellite mode)
Area wise	<i>DDI channel</i>	-	100%
	<i>DD New Channel</i>	-	100%
Population wise	<i>DDI channel</i>	-	100%
	<i>DD News channel</i>	-	100%
Programme Channels	<i>Total channels</i>	-	36
	<i>All India channels</i>	-	7
	<i>Regional channels (24X7)</i>	-	20
	<i>Regional Channels (Non 24X7)#</i>	-	8
	<i>International channel</i>	-	1
Transmitters	<i>R/N/D</i>	-	0/0/518

Presently wef 02.04.2020 as an interim measure, the up-linking of these 8 Channels are being done round-the-clock (24X7)

R= Replace/ upgrade

N= New

D= Discontinued

**PART B
CURRENT ACTIVITIES**

	Activities	Area	Brief Details: 1. Objectives 2. Progress to date	Solutions Implemented/Type of assistance requirement from ABU
1.	Development projects/Upgrading facilities/Training	Training in digital Techniques	To train the staff for new technology being inducted in the broadcasting.	<p>The National Academy of Broadcasting and Multimedia, NABM (formerly known as Staff Training Institute STI (T)) is premier training academy of Prasar Bharati. The prime objective of the academy is to develop & nurture the broadcast professionals of All India Radio & Doordarshan for their optimum performance in the dynamic ever challenging Broadcasting environment.</p> <p>Infrastructure of the academy is being upgraded regularly, to meet the world class quality of training and to keep pace with technological changes. The academy has Radio & TV Studios with latest production and post-production equipment, measurement lab, computer lab, networking lab, radio & TV transmitters and library with collection of more than 7000 technical books. The academy has very good hostel facilities with 120 rooms.</p> <p>During the period from September 2019 to August 2020, 10 technical courses/ Webinar were conducted which were attended by 231 participants.</p>
		International training course	To train the staff for new technology being inducted in the broadcasting.	<p>International Activities:-</p> <p>NABM collaborates with Asia Pacific Institute for Broadcasting Development (AIBD) and Asia Pacific Broadcasting Union (ABU) to organize trainings/workshops for the radio and television engineering personnel of various countries in Asia Pacific region.</p> <p>Every year the academy organize In-Country and Sub-regional training programs in collaboration with AIBD. For In-Country training program participants are invited from the host country and resource persons/trainers are provided by AIBD. For the sub-regional training program, participants are invited from host country as</p>

	Activities	Area	Brief Details: 1. Objectives 2. Progress to date	Solutions Implemented/Type of assistance requirement from ABU
				well as from countries of Asia-Pacific regions and resource persons/trainers are provided by host country. The academy also considers the requests from countries in Asia-Pacific regions such as Bhutan, Nepal, Mauritius, Afghanistan etc. to train their broadcast engineers/technicians.
		Maintenance	Training the staff for maintenance activities	22 training courses and workshops for maintenance activities were arranged from 1 st September, 2019 to 31 st Aug, 2020 at NABM Delhi and other Doordarshan stations. The courses covered operation, maintenance & measurements of Transmitter and Studio equipment, Computer hardware & maintenance, Earth Station operation & maintenance, and Diesel Generators etc. Around 300 Engineers were trained in such Programmes. Due to COVID-19 Pandemic, scheduled courses could not be conducted. However 16 webinars were conducted which were attended by 1090 Engineers.
		TV productions and technical operations	To upgrade operational knowledge in TV production and technical operation	Short duration training provided by suppliers of broadcasting equipment. More than 320 Engineers were trained in 17 such programmes.
2.	Participation in ABU Activities	Area	Level of Participation	Reasons for not participating (though interested)
		Technical Committee Meeting 2019	Ms Anuradha Aggarwal, Addl. Director General (Tech)	
		Mid Year Technical Bureau Meeting July 2020	1.Mr C. B. S. Maurya, Engineer-in-Chief (BO) 2.Mr Sunil, Addl. Director General (GO) 3.Ms Anuradha Aggarwal, Addl. Director General (Tech)	

	Activities	Area	Brief Details: 1. Objectives 2. Progress to date	Solutions Implemented/Type of assistance requirement from ABU
3.	Suggestions for New ABU Activities e.g. study topic projects, workshops, symposiums etc, spectrum activities, New technology information flows	Activity 1 TAS Mission	May be re-initiated after pandemic is over.	DD may provide expert in certain areas, if required.
		Activity 2 Fellowship	Fellowships for physical workshops/meetings may be re-started after pandemic is over.	--