

Through PB website

**PRASAR BHARTI
(India's Public Service Broadcaster)
Director General : Doordarshan
Doordarshan Bhawan, Copernicus Marg
New Delhi -110001.**

Dated: 12/07/2022

Subject: Draft Technical Specifications for SITC of DD Free Dish DTH Receive Systems.

The Draft specification of the upcoming tender is enclosed herewith to offer comments, if any by prospective bidders/Firms/OEMs.

2. Bidders/OEMs are requested to provide information about available local content (Make in India) in respect of items listed in suggestive BOM along with budgetary quote.

3. Bidders may please submit the above detail on or before due date by e-mail to ddpurchase401@yahoo.co.in or at following Address.

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Room No. 403,
Directorate General: Doordarshan,
Doordarshan Bhawan, Copernicus Marg,
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Specification For: Draft Technical Specifications for SITC of DD Free Dish DTH Receive Systems.

Specification no: SATD/DD Free Dish DTH Receive Systems Dated 07.07.2022.

Due Date to offer Comments: 26.07.2022

Encl.: As above (33 Pages)

Signed by Girish Kumar
Date: 12-07-2022 17:06:57
Reason: Approved

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Prasar Bharati
Directorate General: Doordarshan
Doordarshan Bhawan: Copernicus Marg
New Delhi-110001

Technical Specifications for
SITC of DD Free Dish DTH Receive Systems

Spec No. : SATD/ DD Free Dish DTH Receive Systems
Date: 07.07.2022

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For Industry Feedback

INDEX

S. No.	Description	Page No.
1	Introduction	3
2	Scope of Work	3
3	Eligibility Criteria	3-5
4	Terms and Conditions for supply of DD Freedish DTH System	5-6
5	Technical Specifications	7-13
6	Complement of Equipment	13-14
7	General	
A.	Compliance and Authorization	14-15
B.	Documentation	15
C.	Guarantee/Warranty and after sales service support of DTH Receive Set	15-18
D.	Inspection	18
E.	Delivery Period	19
F.	Pre-Bid Conference	19
G.	Check List and Enclosures	19-20
8	Annexure-1 of Appendix-D {Suggestive Bill of Material (BOM)}	21-23
9	Annexure-2 of Appendix-D (List of Consignees)	24
10	Annexure- 3 of Appendix-D (CERTIFICATE FOR AUTHORIZATION)	25
11	Annexure- 4 of Appendix-D (CERTIFICATE FOR GURANTEE)	26
12	Annexure- 5 of Appendix-D (CERTIFICATE FOR AFTER SALES SERVICE SUPPORT)	27
13	Annexure-6 of Appendix-D Sample UI Bit Map (BMP) File	28-33

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1. Introduction

This document lays down technical specifications for supply of DD Free Dish DTH Receive Systems with App based authorisation and activation facility for distribution in Strategic areas and Installation, testing and commissioning at the premises of beneficiaries. Each System includes STB with App based authorisation and Activation facility and its accessories along with Receive dish antenna, LNBF, RF cable with connectors etc.

2. Scope of Work

The execution of SITC (Supply, Installation, Testing and Commissioning) is required as stated in "Invitation to Bid" on terms specified in the description of SITC and Technical Specifications, subjected to the terms "General Terms and Conditions" at Appendix-B. The scope of SITC of this tender is as follows:

- (i) Bidder shall supply DD Free Dish DTH Receive Systems with App (Application) based authorisation and activation facility" at consignee for distribution in Strategic areas.
- (ii) Bidder shall carry out Installation, testing and commissioning of the supplied DD Free Dish DTH Receive sets at the premises of beneficiaries.

3. Eligibility Criteria

3.1 Eligibility criteria for the vendor/bidder:-

- 3.1.1 Bids should preferably be from original manufacturers, however, Bids from sole selling agents/authorised distributors/authorised dealers can also be considered provided such bids are accompanied with necessary supporting documents/authority letter from concerned original manufacturer who authorised them to market their product, provided further, such an authority letter is valid at the time of bidding. Required Warranty Cover of the manufacturer for the product will be provided by such a supplier through OEM. The Bidder shall not be under a declaration of ineligibility by Purchaser for Corrupt/Fraudulent/ Collusive/ Coercive practices.
- 3.1.2 The Bidder is not put on 'Holiday' by Prasar Bharati or any of the Government departments, Public Sector or banned/blacklisted by Government department/ Public Sector on the due date of submission of bid. If the Bid submitted by such Bidder shall not be considered for opening/ evaluation/ award and in case of Manual Tendering, such Bid along with the Bid Security, if any, will be returned immediately to the Bidder.
- 3.1.3 Bidder must have his local office/authorized representative/dealer in India for after sales service support.

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3.1.4 The Bidder shall have to meet the following Work experience:-

Work Experience- (Self - certified with relevant documents*)-	<p>a. One Similar work** of minimum value of 80% of estimated cost of the project.</p> <p>or</p> <p>b. Two Similar works** of minimum value of 60% of the estimated cost of project,</p> <p>or</p> <p>c. Three Similar works** of minimum value of 40% of the estimated cost of project.</p>
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Note:

a) *Self-certified Relevant document means to provide copies of supply order and receipt certificate/Factory dispatch document/delivery challan/Copy of invoice of above said work to various organizations along with the bid.

b) **Similar Work means supply of Set Top Box (STBs), TV receivers, Audio/Video equipment, Broadcast Equipment and Receive Antennas works executed with any Central and State Government agency, PSUs, Private organizations.

3.1.5 Bidder should have authorise Installation network/ Dealer network/Service Centre for installation of DTH Receive sets having atleast two years' experience of installation for the same. Bidder shall submit self-certified copy of relevant document in this regard.

3.2 OEM should have the experience of manufacturing and supplying of minimum 25,000 sets of Set Top Box (STBs) per year and a total of 250000 sets of STBs in the preceding past five years (i.e. from FY 2017-18 to 2021-22). List of past supply records of OEM of such equipment in the preceding past five years (i.e. from FY 2017-18 to 2021-22) to various organizations along with documents (like Purchase order/ Invoice and Delivery Challan/ Completion Certificate etc.) substantiating the claim in this regard shall be provided with bid.

3.3 For Consortium / Joint Venture :(If not applicable , these clauses may be deleted)

In case of a Consortium/JV, Power of Attorney issued by Board of Directors/ Chairman/CEO/ MD / Company Secretary of the Consortium Lead Member as well as Consortium Member(s) of the Consortium/ partners of JV, in favour of the authorised employee(s) of the Consortium /Lead member of JV, for signing the documents on behalf of the Bidder, in respect of this particular tender, to sign the Bid and all subsequent communications, agreements, documents etc. pertaining to the tender and act and take any and all decisions on behalf of the Consortium/JV, are to be submitted.

3.3.1 The authorized employee(s) of the Bidder shall be signing the Bid and any consequence resulting due to such signing shall be binding on the Bidder.

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- 3.3.2 Bids from consortium/ JV of two or more members (maximum 3 nos. Including Leader) are acceptable provided that they fulfill the qualification criteria and requirements stated in the Tender Documents. Participating Consortium/ JV shall submit the Agreement, clearly defining the scope and responsibility of each member. Members of consortium/ JV shall assume responsibility jointly & severally. The bid security shall be submitted by the Bidder (Consortium/ JV). In case of award, payment shall be made to the Consortium/JV.
- 3.3.3 The Consortium/ JV Agreement must clearly define the Consortium Leader/ Lead Partner of JV, who shall be responsible on behalf of the Consortium/JV during the period of evaluation of the bid as well as during the execution of Contract for timely completion of supply and shall receive/ send instructions for and on behalf of the Consortium/JV.
- 3.3.4 A Consortium/ JV once established at the time of submitting the Bid shall not be allowed to be altered with respect to constituting members of the Consortium/ JV or their respective roles/ scope of supply/work, except with prior written approval of Prasar Bharati. If during the evaluation of bids, a Consortium/JV propose any alteration/ changes in the orientation of Consortium/JV or replacements or inclusions or exclusions of any partner(s)/ member(s) which had originally submitted the bid, bid from such Bidder shall be liable for rejection.
- 3.3.5 Any member of the Consortium/ JV shall not be eligible either in an individual capacity or be a part of any other Consortium/JV to participate in this tender. Further, no member of the Consortium/ JV should have been put on 'Holiday' or banned/ blacklisted by Prasar Bharati/ Government department/ Public Sector as on the due date of submission of bid. Offer submitted by such Consortium/ JV shall not be considered for opening/evaluation/Award.

4. Terms and Conditions for Turnkey Implementation and Commissioning:

- 4.1) Consignee for delivery of DD Free Dish DTH Receive sets will be an establishment of Doordarshan / Akashwani (AIR) across the country.
- 4.2) Detailed distribution plan of DD Free Dish DTH Receive Systems with app Based authorisation and activation facility shall be communicated to successful bidder.
- 4.3) Successful Bidder shall Supply, Install, Test and Commission (SITC) DD Free Dish DTH Receive Systems and authorize & activate the DTH STB at the premises of beneficiaries either directly through their service Centre/Dealer network/OEM service centres or franchises.
- 4.4) The location/address of actual beneficiaries will be provided to successful bidder by Doordarshan.

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- 4.5) The bidder shall have authorised service centres/distributor centres in India and should be manned by Technical support staff to provide Installation, Warranty and After Sales Service support for its offered equipment.
- 4.6) Successful Bidder/ OEM should create at least one Service Centre / Dealer network/OEM service centres or franchises as per the Consignee District/ adjoining District from the Consignee Kendra (Wherever not available) within time specified delivery period of DD Free Dish DTH Receive Systems with App Based authorisation and activation facility.
- 4.7) The bidder/authorised dealer/distributor shall have their own helpline no. and/or e-commerce portal for installation and maintenance related queries for their offered DD Free Dish DTH Receive set in India.
- 4.8) The bidder shall provide after sales service support either directly through service centres/OEM service centres or franchises. A list of such Service support centre along with their contact numbers and addresses for the offered equipment should be submitted along with the tender and should undertake to enhance their Service support centre as per distribution of DD Free Dish DTH Receive Systems with App Based authorisation and activation facility in India.
- 4.9) After ITC of DTH Receive sets at the premises of beneficiary, the bidder/authorised dealer/distributor/maintenance service centre/franchises of the bidder shall not charge towards repair and maintenance of the DTH Receive Set during the period of warranty. If any equipment of the offered DTH receive set is irreparable, then it should be replaced by the new equipment free of cost by the bidder/ the authorised dealer/distributor/ maintenance service centre/franchises of the bidder within the warranty period.
- 4.10) If necessary, the bidder may be asked to demonstrate the features and parameters of offered DD Free Dish DTH Receive System with App Based authorisation and activation facility as part of technical evaluation of submitted bids on a notice of seven days. Accordingly, bidder should be in readiness for demonstration and testing of offered DD Free Dish DTH Receive System with app based authorisation and activation facility either at Doordarshan premises in Delhi or bidders premises in Delhi/NCR.

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5. Technical Specifications of DD Free Dish DTH Receive System with app based authorization and activation facility :

5.1) MPEG-2 & MPEG-4 SD and MPEG-4 & HEVC HD, DVB-S & DVB S2 Compliant DTH Set Top Box

A. General Features of STB:

- 1) The bidder has to comply with BIS (Bureau of Indian Standards) certification on invoice on the subject.
- 2) The offered Set Top Box shall have the facility to pass all the Dolby encoded up to 5.1 audio channels.
- 3) The offered Set Top Box shall have the facility to show boot up logo of DD Free Dish DTH platform. The DD Free Dish logo will be provided by DD to successful bidder.
- 4) The offered Set Top Box shall have a good quality RF tuner as mentioned in the technical specification clause no. B. 1.(1.1).
- 5) The offered Set Top Box shall have a good quality (Rugged) Outer Box and Chassis of material MS/Aluminium/Hard Plastic etc. for the overall safety of STBs to be used in strategic areas.
- 6) The offered Set Top Box shall allow software updates/upgrade (operational software), programme recording and playback via USB port.
- 7) The offered Set Top Box shall have one additional USB port to support Wi-Fi Dongle so that TV audience measurement such as Programme rating, Analysis of STB data, Platform data etc, can be carried through Return Path Data (RPD).
- 8) The offered Set Top Box shall be RPD capable and support to store data of what was viewed. RPD enabled Set Top Box shall be capable of sending the stored information to a Backend server/Service provider through the return path internally or externally.
- 9) The offered Set Top Box shall support 7- day EPG, Teletext, Subtitle and Closed Captioning.
- 10) The offered Set Top Box shall support min 500 TP and 2500 Programs restore.
- 11) The offered Set Top Box shall support 576p/576i/480p/480i video resolution for SDTV and 720p/1080i/1080p for HDTV.
- 12) The offered Set Top Box shall support app based authorisation and activation by manual feeding of unique activation key. A Pop up window on masked video should explain viewer all the Initial Activation methods.

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- 13) Middleware of STBs need to be developed to meet the DD Freedish DTH requirement. Sample UI Bit Map (BMP) File should be submitted to Doordarshan for approval within one month of the date of issue of DG:DD AT and should be created as per the reference UI which is attached here with as Annexure-6 of appendix-D.
- 14) Auto refreshing facility of channel name, DVB compliant PSI/SI table, PIDs, PCR, EPG & EI table etc, need to be implemented in the STB.
- 15) The offered STB should start with assigned home channel / landing channel and have the option to set any transponder frequency as a home frequency with enable & disable facility.
- 16) The offered STB shall be initially tuned to downlink frequency of DD Freedish DTH platform in ascending order and preferably; first channel of lowest downlink frequency shall be home channel/landing channel. Whereas, STB should also have auto tuning facility as well as manual tuning facility to any downlink frequency specified in this document.
- 17) The serial no. of the offered STB should not be less than 16 digits. This should be a combination of alpha numeric and numeric keys.
- 18) The bidder shall provide make, model, serial number for the offered equipment and DD Free Dish logo imprinted on the packing box of the equipment as well as it should be laser imprinted on the supplied equipment.
- 19) The bidder shall provide Offered 0.6 meter receive PDA with DD Free Dish Logo imprinted on the reflector.

B. Technical Specifications:

S. No.	Parameter	Specifications
1	RF Input Tuner, Audio/Video Decoder and Input/ Output Interface/Connectors	
1.1	Satellite Input (Tuner)	1 x DVB-S2 including DVB-S compliant L-band Input signal Tuner (for SD and HD Set Top Box) with 75 ohm, F Type female connector
	a) Input level per carrier b) Input frequency range c) Symbol rate d) RF Input Impedance e) RF Input Return loss	a) -65dBm to -25dBm or better b) 950 MHz to 2150 MHz c) 2 M Symbols/Sec – 45 M Symbols/Sec d) 75Ω e) 8 dB, Minimum
1.2	Video Decoding	SD: MPEG- 2 & MPEG- 4 HD: MPEG-4 & HEVC
1.3	Video Output	1 x RCA or 1xPhono Jack (This is common for CVBS and Stereo Audio out) and 1x HDMI

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1.4	Audio Decoding	i) MPEG-1 Layer-2 ii) HE-AAC 5.1 v1 & v2 iii) Dolby digital 5.1 & Dolby digital Plus 5.1 (Pass through)
1.5	No. Of Stereo Audio	Min. 2 nos.
1.6	Audio Output	2xRCA or 1 x Phono Jack (This is common for CVBS and Stereo Audio out as mentioned under Sr. No. 1.3)
1.7	a) Software update/upgrade, Video recording and Playback b) Wi-Fi Dongle	1x USB 2.0 port or better 1x USB 2.0 port or better
1.8	To connect power supply unit	Power Jack
1.9	Front panel Buttons	Min 5 buttons (Power, ch+, ch-, V+, V-).
1.10	Front Panel LED Indicator	Power, IR, RF Signal
2 Power Supply:		
2.1	Power Supply Feeding System	External Adaptor
2.2	Input AC Voltage Range	90-270 V
2.3	Input AC Frequency	50 Hz \pm 2 Hz
2.4	Surge immunity	4 KV
2.5	Spike immunity	4 KV
2.6	Power handling capacity	Min. 18W
2.7	Output Voltage	Min 12 V, DC
2.8	Output Current capacity	Min 1.5 Amp, DC
3 Chipset and Memory :		
3.1	Salient Features	a. A good quality Chip manufactured by a reputed company shall be used. b. Chip shall support secure boot process.
3.2	Flash	Minimum 16 MB(Mega Byte)
3.3	RAM	Minimum 128 MB DDR3.
4 Application Based Authorisation and Activation of STBs:		
4.1	Authorisation and Activation of STB	a) The offered Set Top Box shall support application based authorisation and activation after submitting the activation unique key (Which is pre installed in the STBs). b) Details for getting Activation key by respective beneficiary is explained under para 5.1.A.12. A Pop up warning window need to be incorporated on masked video of STB and should explain viewer all the Initial activation methods.

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4.2	Authorisation and Activation Unique keys Data Base of STBs	<p>a) Bidder shall provide the complete Data Base of Unique Keys generated with respect to Serial Numbers of all the STBs for App based Authorisation and Activations.</p> <p>b) The following mandatory Data Base of STB should be encrypted as well as write protected and should be in open source preferably in EXCEL format.</p> <ul style="list-style-type: none"> i) STB Make ii) STB Model iii) STB Sr. No. iv) STB Activation Key v) STB manufacturing Date vi) STB Order no. vii) STB Order Date <p>c) Bidder should provide decryption process of encrypted activation key along with required software. The successful bidder should supply two sets of Data base to Director (E) Satellite Design wing of Doordarshan Directorate after burning this on two different USBs.</p>
5 Middleware for DD approved UI and Auto Refreshing of DVB compliant PSI/SI table:		
5.1	Middleware software/ UI BMP File	<p>(a) Middleware of STBs need to be developed to meet the DD FreeDish DTH requirement. Sample UI Bit Map (BMP) File will be submitted to Doordarshan for approval within one month of the date of issue of DG:DD AT and should be created as per the reference UI which is attached here with as Annexure-6 of Appendix-D.</p> <p>(b) Bidder/ OEM should supply two sets of finalised DD approved Middleware software/ UI BMP File to Director (E) Satellite Design wing of Doordarshan Directorate after burning this on two different USBs.</p>
5.2	Auto- refreshing	Auto refreshing facility of channel name, DVB compliant PSI/SI table, PIDs, PCR, EPG & EI table etc, need to be implemented in the STB.

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5.2) Infra-red Remote Control hand set of above Set top Box:

- 1) Infra-red Remote control shall be of good quality.
- 2) Infra-red Remote control shall have following important keys for instant operations and functions:
 - a. Power on/off key
 - b. Vol + and Vol – keys
 - c. Mute key
 - d. Ch+ and Ch- keys
 - e. Page up and Page down keys
 - f. Numeric keys 0 to 9
 - g. Info key
 - h. Recall key
 - i. Exit key
 - j. Menu key
 - k. Full screen key
 - l. Closed captioning key
 - m. EPG key
 - n. Favourite key
 - o. Four additional keys coloured red, green, yellow and blue
- 3) Power supply requirement:
 - a. Normal Voltage: 3 V DC
 - b. Dry cell batteries (1.5x 2)
- 4) Reachable straight distance at 3V: More than 10 meters.

5.3) 0.6 Meter Ku-Band offset Solid Parabolic Receive Dish Antenna, Low Noise Block Down Converter-Feed and Co-axial Cable

A. 0.60 meter (Nominal) Ku-Band offset Solid Parabolic Receive Dish Antenna:

S. No.	Description of Parameter	Specifications
1	Ku-Band Rx frequency	Ku-band 10.7 GHz to 12.75 GHz
2	Major Axis	Minimum 0.65 Meter
3	Minor Axis	Minimum 0.60 Meter
4	F/D Ratio	0.45 to 0.70
5	Dish type & Thickness	One panel (Single Reflector) Thickness-Minimum 0.6mm

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6	Reflector Optics	Offset Focus
7	Cross Polar isolation (on axis)	Better than 25 dB
8	Rx Gain @ 11.7 GHz)	Minimum 35.5dBi
9	El. Movement	5 to 85°
10	Az. Movement	±180°
11	Wind loading capacity: a) Operational b) Survival	a) 72Km/hr or better b) 150Km/hr or better
12	Operating temperature	-30°C to +60°C
13	Mount	Az. / El. type wall and roof mount
14	Polarization	Linear
15	Materials to be used for Reflector and Accessories	With high quality outdoor grade powder coated. Sufficient strength to withstand the wind pressure as per para 11 above and effects of climatic condition throughout the country including coastal areas.

B. Low Noise Block down Converter-Feed (LNBF):

S. No	Description	Specification
1	I/P Freq Range	Low Band : 10.70 GHz to 11.70 GHz High Band : 11.70 GHz to 12.75GHz
2	O/P Frequency Range	Low Band: 950 MHz to 1950 MHz High Band: 1100 MHz to 2150 MHz
3	Output connector type	75 ohms Female "F" Type Connector
4	Input feed horn type	Linear, Optimized for Offset dish F/D ratio from 0.45 to 0.70
5	Noise Figure	0.5 - 0.8 db or better
6	LO	Low Band: 9.75GHz High Band: 10.60GHz
7	LO stability	± 3 MHz (Max) over temperature range of -30 Deg C to +60 Deg C
8	Conversion Gain	55 dB Minimum
9	Cross Pole Isolation	20dB minimum
10	Insertion loss	< 0.2 dB
11	DC Operating Voltage	11.5 V to 19.0 VDC

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12	Band Switching	Low Band: 0 kHz High Band: 22kHz \pm 4 kHz
13	Operating Temperature	-30°C to +60°C

C. Coaxial Cable:

S. No	Description	Specification
1	Cable type	RG 6 (Centre conductor should be copper/CCS material)
2	Characteristic Impedance	75 ohm
3	Type of "F" connector (I/O)	Professional grade, compression type, ANSI/SCTE compliant "F" connector (Male at both end)
4	Loss in dB per 100 feet At 950 MHz At 2150 MHz	8 dB/100 feet or better 11 dB/100 feet or better

5.4) Installation of DTH Receive Sets

- 1) Bidder shall install DTH Receive sets at the beneficiary's premises and shall facilitate the beneficiary for authorisation and activation of STBs.
- 2) Bidder shall have authorise Dealer Network/Distributor/service centre for installation of DTH Receive sets, taking KYC/CAF details for authorisation & Activation of STB by receiving OTP from DD Server/Call Centre at the beneficiary's premises.
- 3) Bidder shall have Technical support staff for providing Installation, Warranty and After Sales Service Support for its offered equipment.

6. Complement of Equipment:

- 6.1) The make and model/part no. Alongwith quantity of each and every equipment/item/installation material etc. should be clearly mentioned in the offered Bill of Material (BoM).
- 6.2) The suggestive Bill of Material (BOM) has been provided in **Annexure-1 of Appendix-D**. The bidder is required to provide the complete list of equipment, software and accessories etc. offered to meet the specifications requirement. The quantity of each item including sub-module etc. are to be specified clearly and compulsorily, failing which the bid is liable to be rejected summarily.

- 6.3) Any substandard equipment included in the offer may result into the rejection of complete offer with the sole responsibility of bidder.
- 6.4) The offer should also include the detailed technical brochure and technical manual containing all the technical specifications of all the offered equipment, accessories, and software etc.

7. General:

A. Compliance and Authorization:

- 1) The bidder must submit a point-by-point compliance statement in respect of all the points, sub-points and paras laid down in this specification from page 1 onwards along with the offer.
- 2) In addition to the above, compliance from respective OEMs (not from representative) in respect of all the equipment listed below should necessarily be given on their letter heads, in respect of all the points, sub-points and paras laid down in the specification of respective equipment.
 - i) Digital Set Top Box
 - ii) 60 cm Receive PDA
 - iii) Coaxial Cable
 - iv) Ku Band LNBF
- 3) The OEM's authorization (not from representative) in respect of all the equipment listed above under Sr. No 7.A.2 should be given on their letter head along with bid in the format prescribed in Annexure – 3 of Appendix-D.
- 4) Mere signature on a copy of Doordarshan specifications shall not be accepted as a compliance statement.
- 5) Compliance statement in the format as indicated below shall only be accepted.

Sr. No.	DD specs.	Compliance (Yes/No)	Performance fig. of the offered equipment	Deviations, in Case of non-compliance	Features in the System offered Which exceed DD specs.	Page No.	Remarks

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- 6) The manufacturer should also record the performance figures of the equipment offered in the quote for which the compliance statement is enclosed.
- 7) The compliance statement should be supported by highlighted record of these in the technical literature/data sheets enclosed with the tender and a clear reference to the attached supporting document should be given in the remarks column against each & every specification. Any offer without proper supporting document of each & every specification and containing only a commercial hand out/pamphlet is liable to be rejected.
- 8) Data sheets should be submitted in respect of all offered equipment. Any deviation from the specification detailed in the compliance statement is to be highlighted separately. Page no. of location of data sheet should be given in page no. column of the compliance statement.
- 9) Offers without proper & duly completed compliance statement are likely to be rejected with the sole responsibility of the bidder and no further claim/ correspondence will be entertained.

B. Documentation:

- 1) One set of technical manual for all the equipment offered are to be uploaded along with bid.
- 2) All the offered software should have perpetual validity and should be in the name of Doordarshan.
- 3) The bidder shall provide the user manual, safety notes and other necessary instruction list along with instructions for Installation and operation to each set.

C. Guarantee/Warranty and After Sales Service Support of DTH Receive sets:

Unless some special Warranty/Guarantee clause has been stipulated elsewhere in the invitation to the tender or any of its Appendix, the following warranty shall form part of the contract placed on successful tender:-

- 1) SUPPLIER/CONTRACTOR shall fully warrant that all the stores, Equipment and components supplied under the ORDER shall be new and of first quality according to the specifications and shall be free from any defects (concealed fault, deficiency in design, materials and workmanship).
- 2) Should any defects be noticed in design, material and/or workmanship within 2 (Two) years and 4 (four) months from the date of shipment/dispatch of last consignment or 2 (Two) years and 0 (zero) months from the date of commissioning of the equipment, whichever is later, the organization/Beneficiaries shall inform Supplier/Contractor and Supplier/Contractor shall immediately on receipt of such intimation, depute their personnel within 14 days to investigate the causes of defects and arrange

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rectification/replacement/modification of the defective equipment at site without any cost to the Organization/Beneficiaries within a reasonable period (Maximum upto 30 days). If the Supplier/Contractor Fails to take proper corrective action to repair/replace the defects satisfactorily within the reasonable period, this Organization/Beneficiaries shall be free to take such corrective action as may be deemed necessary at SUPPLIER'S/CONTRACTOR'S risk and cost after giving notice to the SUPPLIER/CONTRACTOR.

- 3) Damage to the machinery and/or equipment due to incomplete and erroneous instructions issued by Supplier/Contractor will be responsibility of the Supplier/Contractor and will be treated according to the provisions of warranty clause. Normal wear & tear shall not come under purview of this clause.
- 4) In case defects are of such nature that equipment shall have to be taken to Supplier's/Contractor's Works for rectification etc. Supplier/Contractor shall take the equipment at his cost after giving necessary undertaking or security as may be required by the Organisation/Beneficiaries. This Organisation/Beneficiaries shall, if so required by the Supplier/Contractor, dispatch the equipment by quickest mode on "Freight-to pay" basis to the Supplier's/ Contractor's works. After repairs, Supplier/Contractor shall deliver the equipment at site on freight prepaid basis. All risks in transit to and fro shall be borne by the Supplier/Contractor.
- 5) Guarantee period of Equipment or spare parts thereof replaced is to be extended corresponding to the outage period from the date of acceptance, if the failure rectification takes more than 30 days time.
- 6) The Supplier/Contractor shall guarantee that they will supply spare parts if and when required on agreed price. The agreed price should include, but without any limitation to, agreed discount on the published catalogue price or on agreed percentage of profit on the landed cost.
- 7) The Supplier/Contractor will warranty that before going out of production for any of the spare parts, they will give adequate advance notice to the purchaser so that the latter may undertake to procure, if necessary, the balance of the life time requirements.
- 8) If the repairs, replacement or modification referred are of such nature as may affect the efficiency of the EQUIPMENT, this Organisation/Beneficiaries shall have the right to give to the SUPPLIER/CONTRACTOR, within one month of such replacement/renewal, notice in writing to carry out test as may be required for acceptance of the equipment.
- 9) If the Supplier/Contractor fails to honour his obligation to repair or replace defective goods within a reasonable period of time, or if Supplier/Contractor refuses to carry out work under the guarantee clause and implied guarantee condition, if danger is anticipated or in case of severe urgency, the Organisation shall be entitled to carry out, at Supplier's/Contractor's cost and risk, repair work or replacement deliveries or have it done by a third party. In case not all goods have been delivered by Supplier/Contractor, this Organisation/Beneficiaries is entitled to procure the remaining goods at Supplier's/Contractor's cost and risk. This does not relieve Supplier/Contractor of any of his guarantee obligations. Taxes and duties of any kind whatever imposed by the authorities of the country of the supplier/contractor or his sub-contractors until delivery shall be borne by supplier.

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10) PERFORMANCE GUARANTEE

- 10.1) SUPPLIER/CONTRACTOR shall guarantee that the performance of the EQUIPMENT/MATERIAL supplied under the order shall be strictly in conformity with specification and shall perform the duties specified under the ORDER.
- 10.2) The SUPPLIER/CONTRACTOR shall guarantee that the materials/equipment that shall be purchased from the sub-contractor(s) shall be such as to fulfill the requirements laid down vide Para 1) to 10.1) above and shall undertake to ensure fulfilment of these requirements
- 11) For any equipment or spare parts thereof replaced during Guarantee/warranty period, it shall have further warranty for a period corresponding to the outage period from the date of acceptance as per Clause 5) The supplier will extend the validity of Bank Guarantee for a value proportionate to the value of the equipment for the period commensurate with the period of Guarantee/Warranty extension and the Bank Guarantee will be released after completion of extended warranty period subject to fulfilment of other conditions stipulated in Clause 1) to 10.2).
- 12) In case, bidder is not the STB OEM, then for the offered STBs, certificate/undertaking to provide after sales maintenance support for 5 years including 2 years Guarantee/Warranty period from the date of acceptance of full consignment, either directly or through its authorised dealer/ distributor, shall be submitted by the bidder as well as by the OEM of the offered STBs. For rest of the offered equipment also bidder shall submit a certificate/ undertaking to provide after sales maintenance support for 5 years including 2 years Guarantee/ warranty period from the date of acceptance of consignment, either directly or through its authorised dealer/ distributor.
- 13) It will be the responsibility of the bidder to ensure After Sale Service support and guarantee/ warranty for the offered equipment from the manufacturers.
- 14) Successful Bidder/ OEM should create at least one Service Centre / Dealer network/OEM service centres or franchises as per the Consignee District/ adjoining District from the Consignee Kendra (wherever not available) within time specified delivery period of DD Free Dish DTH Receive Systems with App Based authorisation and activation Facility.
- 15) Bidder shall provide the guarantee/warranty in respect of the offered equipment mentioned in Clause 7.A.2 through respective OEMs. A certificate, duly signed by the OEM on the OEM letterhead, in this regard of the respective equipment must be submitted with the offer by the bidder in the format as prescribed in Annexure 4 of Appendix - D.
- 16) After completion of two years guarantee/ warrantee period, After Sales Service support for additional 3 (three) years for the repairs/maintenance in respect of the equipment as mentioned in Clause 7.A.2 shall also be provided by the OEM either directly or through his representative in India. After Sales Service support certificate for 5 years including 2 years Guarantee/warranty period, duly signed by the OEM on the OEM letterhead of the respective equipment must be submitted with the offer by the bidder in the format as prescribed in Annexure 5 of Appendix-D.

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- 17) Offers without proper & duly completed Guarantee/Warranty and After Sales Support certificates are likely to be rejected with the sole responsibility of bidder and no further claim/ correspondence will be entertained.
- 18) The bidder shall provide Guarantee/warranty card for the offered equipment inside the packing box of the equipment.
- 19) The bidder shall imprint the helpline nos. and service centres detail on the Guarantee/warranty card and keep it in each STB Box.

D. Inspection:

- 1) All the equipment to be supplied against the purchase order for this tender shall be subjected to pre-dispatch inspection at Delhi or at bidder's premises by Doordarshan officials appointed by Doordarshan Directorate.
- 2) Pre dispatch inspection should be carried out in three different ways as per percentage mentioned below:

S.No.	Type of inspection	Percentage of goods
1	Visual Inspection	100% of total offered quantity
2	Random Sample Based Physical Inspection	05% of total offered quantity
3	Random Sample Based Technical Inspection	01% of total offered quantity

- 3) A draft copy of ATP (Acceptance Test Procedure) must be submitted by the successful bidder one month in advance of the proposed date of pre-dispatch inspection of DTH Receive Sets to Doordarshan Directorate for approval. ATP should describe the standard test procedure of individual equipment and overall system.
- 4) The approved ATP with or without changes shall be sent back to the successful bidder to be used for pre dispatch inspection of DTH Receive Sets by DD Engineer(s). All the equipment required for the inspection as per the approved ATP are to be provided by the successful bidder.
- 5) Installation and testing of the DD Free Dish DTH Receive system; and authorisation & activation of STB will be carried out by the successful bidder at the premises of all beneficiary. Hence, on the successful Authorisation and Activation of STBs at Beneficiaries premises by sending OTP/STB authorisation code from DD Server/Call Centre shall be the final acceptance and then, it may be assumed that the supplied DTH Receive set is commissioned.

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E. Delivery Period:

- 1) Delivery period for supply of DD Free Dish DTH Receive Systems with app based authorisation and activation facility should be as given below from the date of issuance of DG: DD Acceptance of Tender (AT) to the successful bidder.

S. No.	Delivery Period from the date of issuance of AT	Percentage of Total DD Free Dish DTH Receive Systems with App based authorisation and activation facility to be delivered at the consignee premises
1	Four Months	Minimum 20% of Total Ordered Quantity
2	Five Months	Minimum 40% of Total Ordered Quantity
3	Six Months	Balance quantity of Total Ordered Quantity

- 2) Four months delivery period for Installation, Testing and Commissioning of DD Free Dish DTH Receive sets; and authorisation & activation of STBs at the premises of Beneficiaries from the date of handover of DD Free Dish DTH Receive sets to the respective consignee or handover of the credentials (Name, address) of the beneficiaries by Doordarshan whichever is later.

F. Pre-Bid Conference:

A pre bid conference on technical Specifications and other issues shall be held on date and time specified in the NIT. All prospective bidders may attend the pre bid conference to discuss their queries and suggestions. All the queries and suggestions should be sent to Doordarshan at least 2 days before the date of pre bid conference. No queries/ suggestions shall be entertained after pre bid conference. Amendments subsequent to the pre bid conference shall be sent to prospective bidders, who have purchased tender document by e-mail/fax/ post. It shall be bidder's responsibility to check for any amendments on Doordarshan website before submitting their duly completed bids.

G. Check List and Enclosures:

- 1) The bidders may ensure the following check list along with check list mentioned in the tender document while submitting the bid including some important list of enclosures for ease of evaluation.
- 2) Whether all documents related to fulfilment of the eligibility criteria at clause no. 3 have been submitted.
- 3) Whether certificate for providing after sales service support during the contract period i.e. 5 years including 2 years Guarantee/warranty period has been provided.
- 4) Whether point-by-point compliance statement of the bidder in respect of all the points, sub-points and Paras laid down in this specification from page 1 onwards along with the offer as given in Clause 7.A.5 has been included.

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- 5) Whether point-by-point compliance statement of OEM in respect of all the points, sub-points and Paras laid down in this specification of respective equipment and their authorization mentioned in clause no. 7.A.2, 7.A.3, 7.A.4 & 7.A.5 have been included. Authorization and compliance statement from OEMs will only be acceptable and not from the authorized dealer of the OEMs.
- 6) Whether the BOM has been submitted in the prescribed format.
- 7) Whether the page numbers of the relevant enclosed technical data sheet/manual against each parameter of the specifications have been given in the compliance statements.
- 8) Whether the requisite undertakings for guarantee/warranty and after sales support by OEMs and bidder have been submitted.
- 9) Ensure that no alternate item has been offered.
- 10) Ensure that the relevant technical brochures containing all the parameters of technical specifications of all the offered equipment and accessories have been included with proper indexing for ease of identification.
- 11) Ensure that the un-priced BOM has been included.
- 12) Any other item mentioned elsewhere in the tender.

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Suggestive Bill of Material (BOM)

SITC of DD Free Dish DTH Receive Systems with activation facility for distribution in Strategic areas.

-Sr. No.	Description of the Item (Suggestive BOM)	Description of the Item Offered by the bidder	Qty. Per Set	Total Qty	Make	Model
1.	<p>a) Digital Set Top Box with 3.0V DC battery operated Infra-red Remote control handset – 1 Set</p> <p>b) Audio-Video cable with RCA/ Phono jack at one end and RCA connector on other end (Length of cable -1.0 mtr) - 1 Set</p> <p>c) HDMI Cable with connector (Length of cable - 1.0 mtr) - 1 Set</p> <p>d) Power Supply cable with connector (in case of Internal Power Supply) / Power Supply Adaptor with connector (in case of external power supply) for STB- 1 Set</p> <p>e) Packing box for above items with Imprinted DD FreeDish Logo.- 1 Set</p>		1 Set	750000 Sets		
2.	<p>a) 60 cm Receive PDA alongwith LNBF mounting Kit and universal mount with Imprinted DD FreeDish Logo on Reflector (suitable for both roof and wall mount)- 1 Set</p> <p>b) Packing box for above items with Imprinted DD FreeDish Logo.- 1 Set</p>		1 Set	750000 Sets		

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3.	Ku Band LNBF with packing box with Imprinted DD FreeDish Logo		1 No.	750000 Nos.		
4.	a) 75 ohm low loss RG-6 RF Cable (Copper/CCS) with Professional grade, compression type, ANSI/SCTE compliant "F" type male connectors on both sides , Length of cable-15 mtr b) Packing box for above items with Imprinted DD FreeDish Logo.- 1 Set		1 Set	750000 Sets		
5.	Documents: To be supplied and kept in each STB packing Box a) User manual (Installation and operation manual)- 1 Set b) Guaranty/ Warranty card, safety notes and other necessary instruction list if any – 1 Set.		1 Set	750000 Sets		
6	Installation, Testing and Commissioning of DD Free Dish DTH Receive System at the premises of beneficiaries located across the country.		1 Set	750000 Sets		
7.	Data Base of encrypted as well as write protected Unique Keys generated with respect to Serial Numbers of all the STBs for Initial Activations. Bidder should provide decryption process of encrypted activation key along with required software. After burning the data base on USB, the same should be handed over to Director (E) Satellite Design wing of DGDD.		1 Set.	2 Sets		

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8.	<p>Middleware software/ UI BMP File:</p> <p>DD approved Middleware software/ UI BMP File should be provided on USB.</p> <p>After burning the data base on USB, the same should be handed over to Director (E) Satellite Design wing of DGDD.</p>		1 Set.	2 Sets		
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Annexure-2 of Appendix-D

List of Consignees

DD Free Dish DTH Receive Systems with activation facility to be supplied at:

Consignee will be any establishment of Doordarshan / Akashwani (AIR) across the country. Detailed distribution plan of DD Free Dish DTH Receive Systems with activation facility shall be communicated to successful bidder.

Note: Quantity to be shipped to each consignee shall be intimated along with A/T.

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OEM's LETTER HEAD

CERTIFICATE FOR AUTHORIZATION

Date:

Tender No. :

We, M/s <Name and
Address of the OEM>, do hereby authorize M/s.....
<Bidder's name>, having its office at
..... <Bidder's address> to submit
the bid and sign the contract with Doordarshan for the equipment/product offered by us against the
above tender.

Signature
Name & Designation of authorized signatory of the OEM.....
Name of the OEM -
Stamp of the OEM

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OEM's LETTER HEAD

CERTIFICATE FOR GUARANTEE

Date:

Tender No.:

We, M/s<Name and address of the OEM>, do hereby confirm that:

1. The offered DTH Receive System shall be guaranteed for satisfactory working without any fault and defect for two years as per terms and conditions of tender document.
2. Any defect or failure of any module/equipment during the guarantee period shall be repaired/replaced free of charge at beneficiaries premises.
3. In case defects are of such nature that equipment shall have to be taken to Supplier's/ Contractor's/authorise dealers/authorise distributor's works for rectification etc. Supplier's/Contractor's/authorise dealers/authorise distributors shall take the equipment at his cost after giving necessary undertaking or security as may be required by Prasar Bharati/beneficiaries. Prasar Bharati/Beneficiaries, if so required by the Supplier/ Contractor, dispatch the equipment by quickest mode on "Freight-to pay" basis to the suppliers/Contractors/authorise dealers/authorise distributor's works. After repairs, Suppliers/Contractors/authorise dealers/authorise distributors shall deliver the equipment at site/beneficiaries premises on freight prepaid basis. All risks in transit to and fro shall be borne by the Suppliers/Contractors/authorise dealers/authorise distributors.
4. After sales service support for additional 3 (THREE) years for the repairs/maintenance of equipment after the completion of guarantee/warranty period shall also be provided either directly or through authorise Dealer/Distributor/Service Centre or franchise. In this regard a certificate, duly signed by the OEM on the letterhead, must be submitted with the offer by the bidder.
5. All offered software wherever required will be licensed to Doordarshan on perpetual basis without specifying any time limit or without specifying end of life of the software. Software upgrades within warranty period will be supplied free of cost.

Signature

Name & Designation of authorized signatory.....

Name of the OEM -

Stamp of the OEM

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OEM's LETTER HEAD

CERTIFICATE FOR AFTER SALES SERVICE SUPPORT**Date:****Tender No. :**

We, M/s <Name and address of the OEM>, do hereby confirm that after sales service support for additional Three (3) years for the repairs/maintenance of offered products after the completion of two (2) Years guarantee/ warrantee period shall be provided through our representatives/authorized dealer/service provider/Franchises for the offered equipment and accessories in India as mentioned below:

S. No	Name of the authorized person	Name and address of authorised After sales & support office/firm	Telephone/ Fax	Email of concerned personnel

Signature

Name & Designation of authorized signatory of the OEM.....

Name of the OEM.....

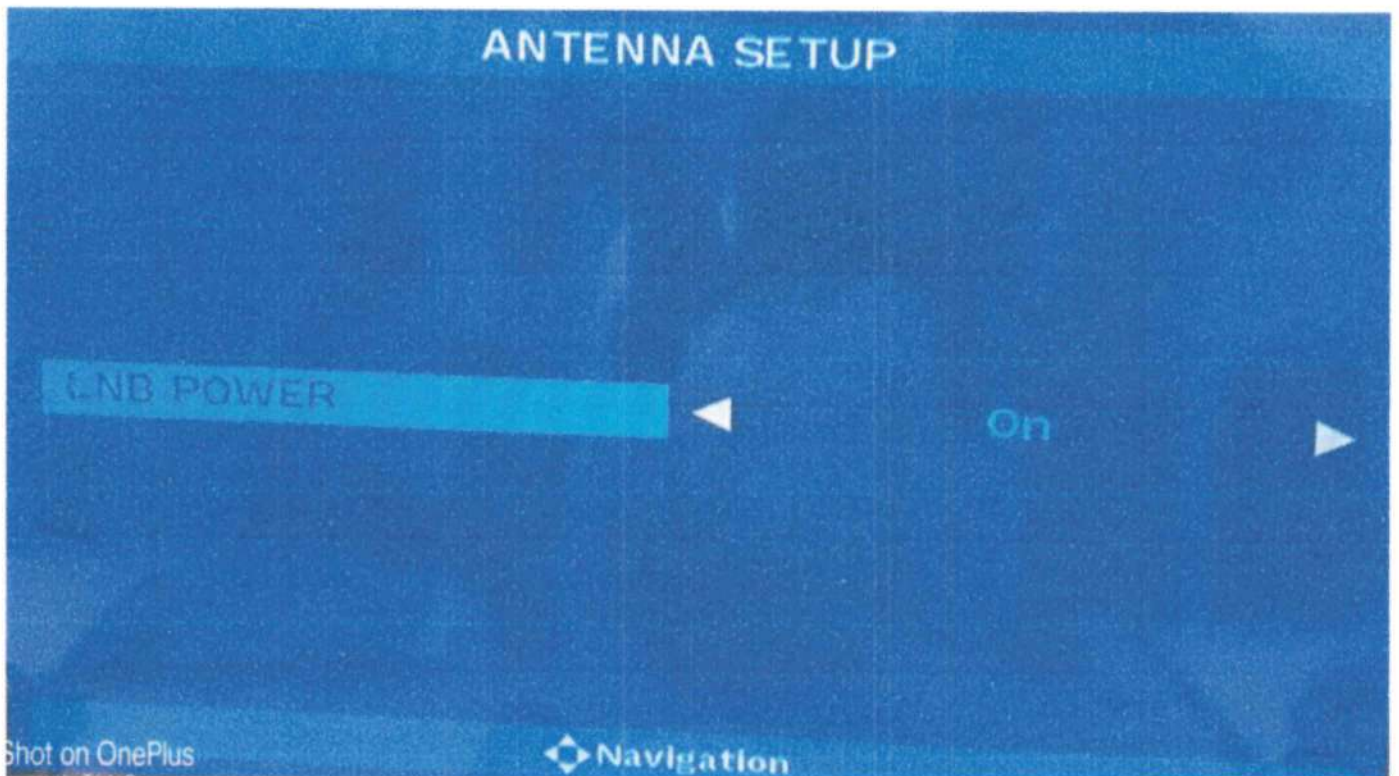
Stamp of the OEM







Sample UI Bit Map (BMP) File

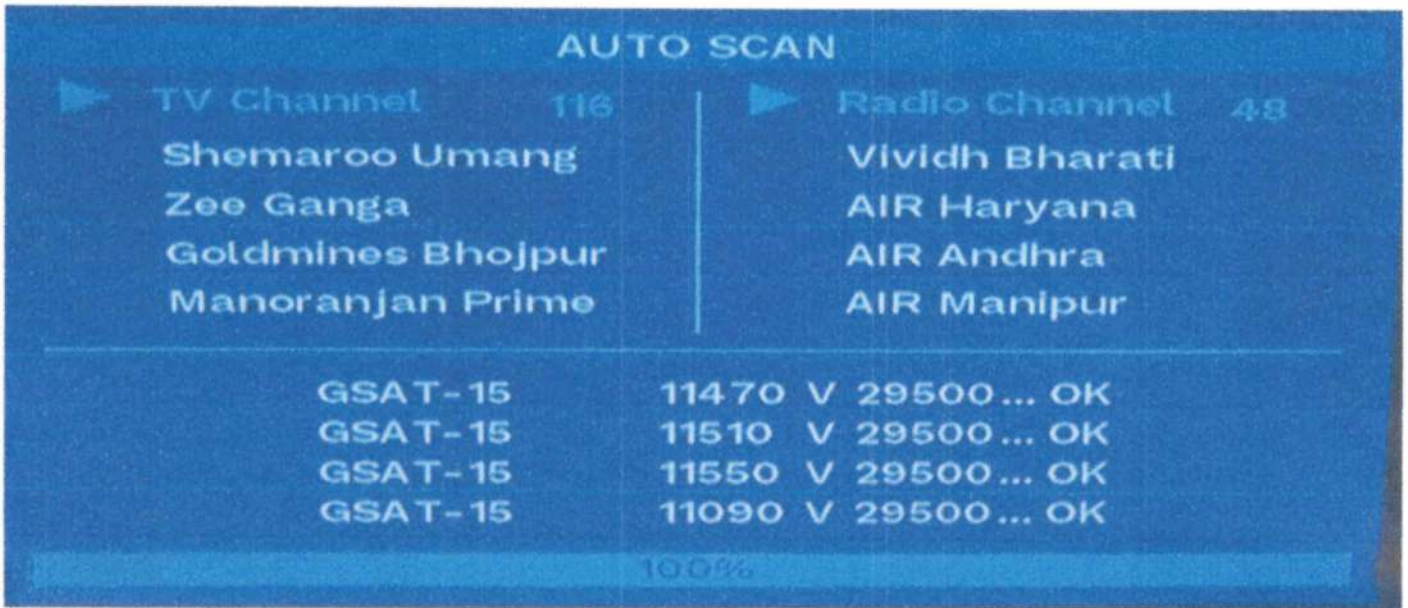
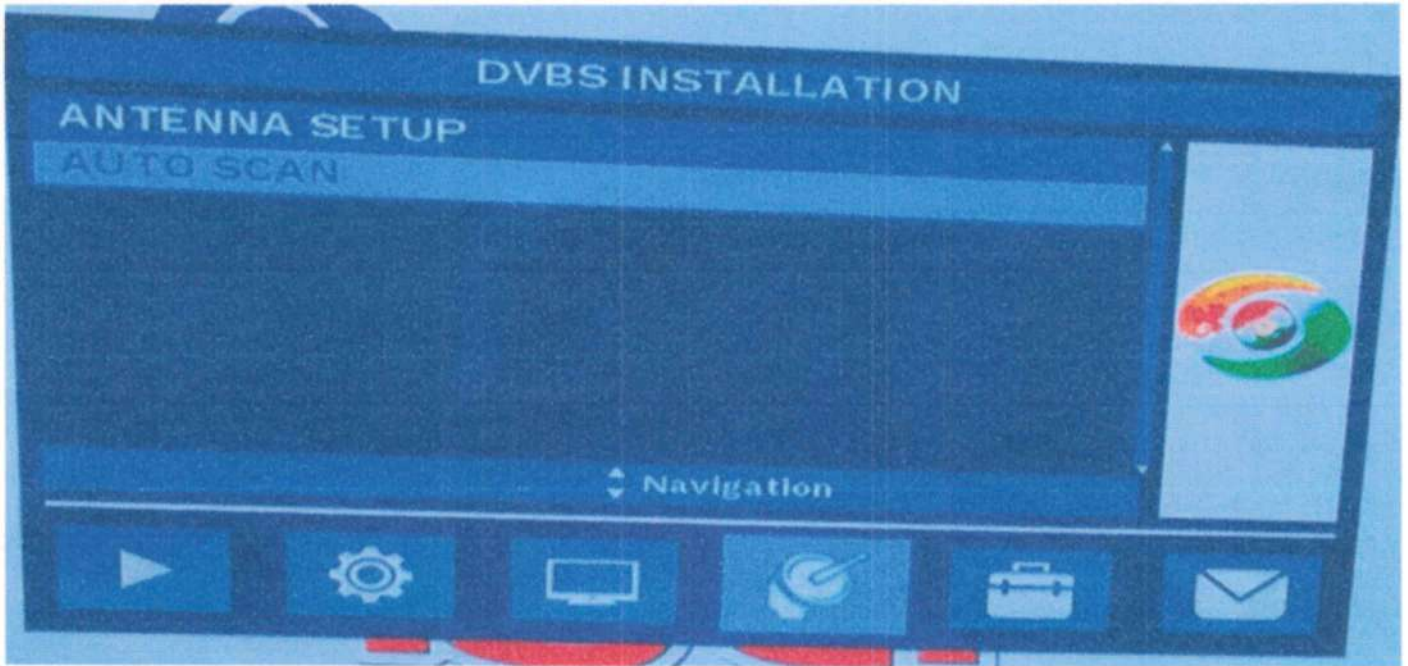


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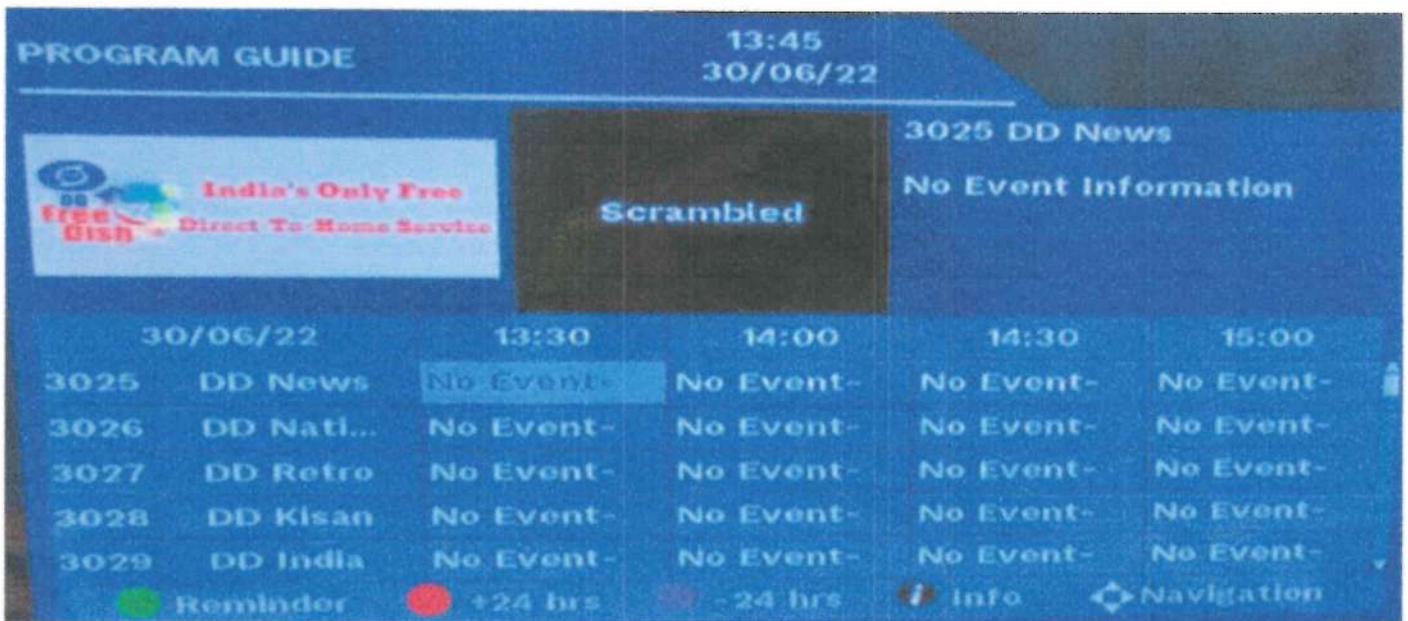
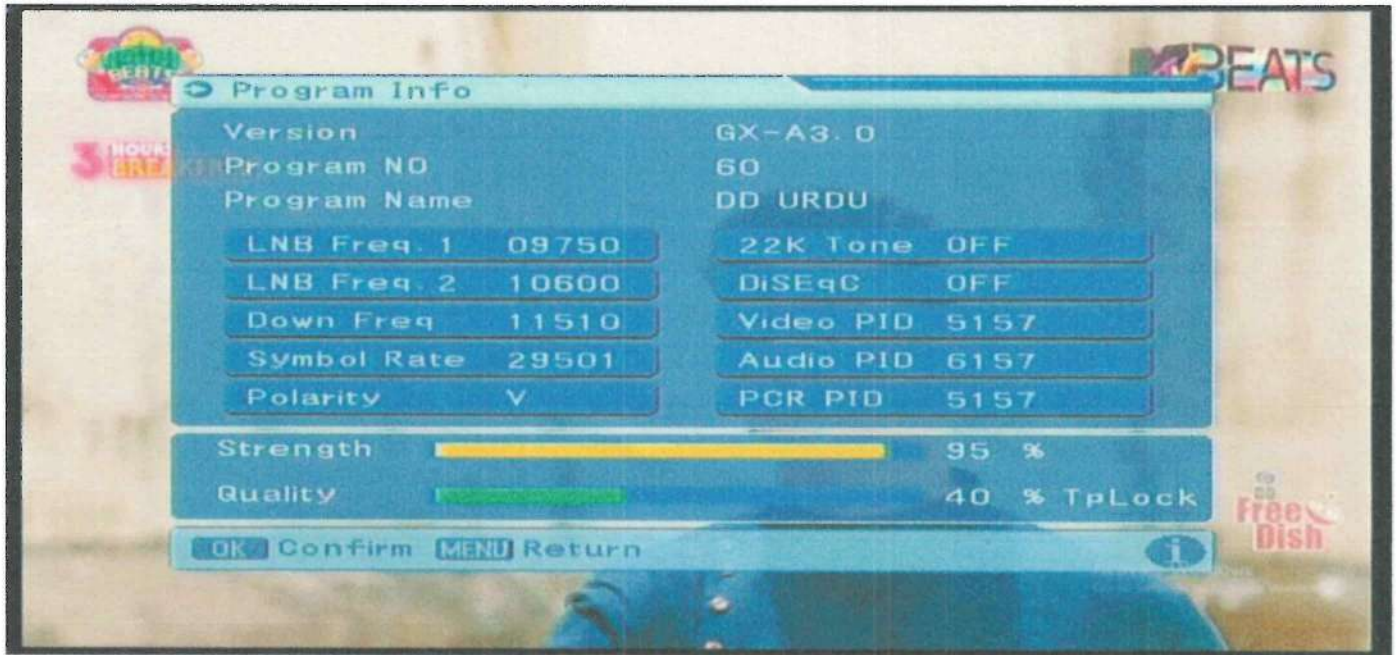
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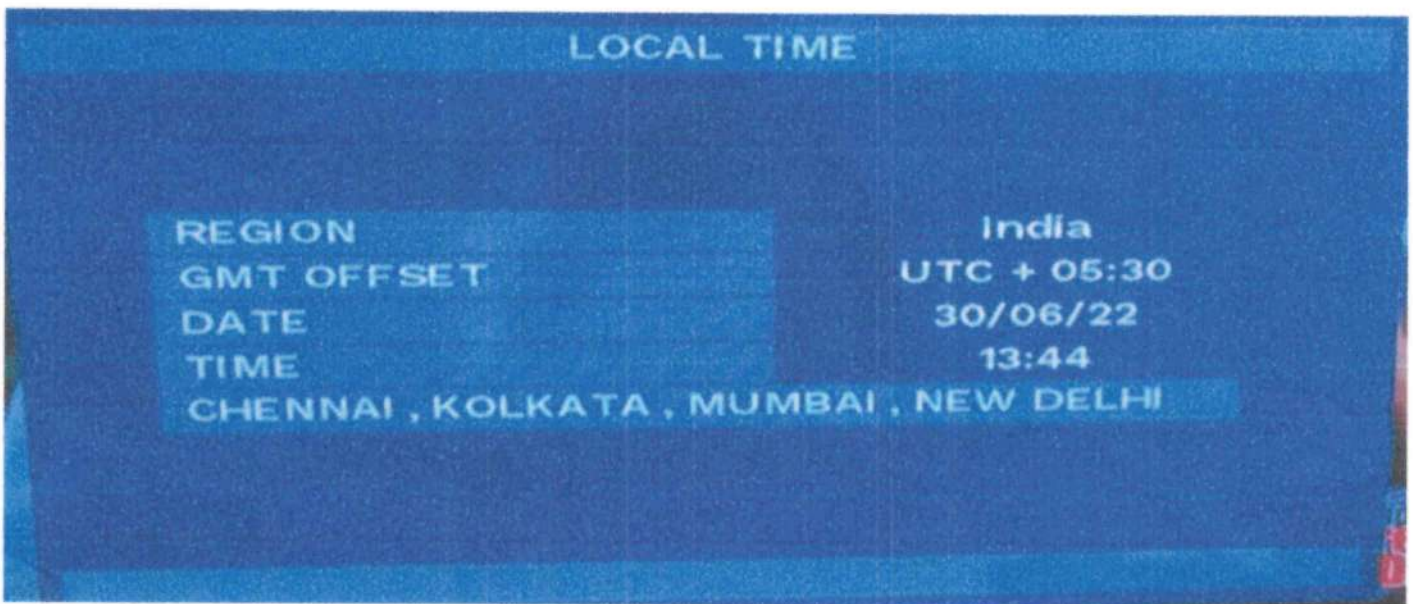
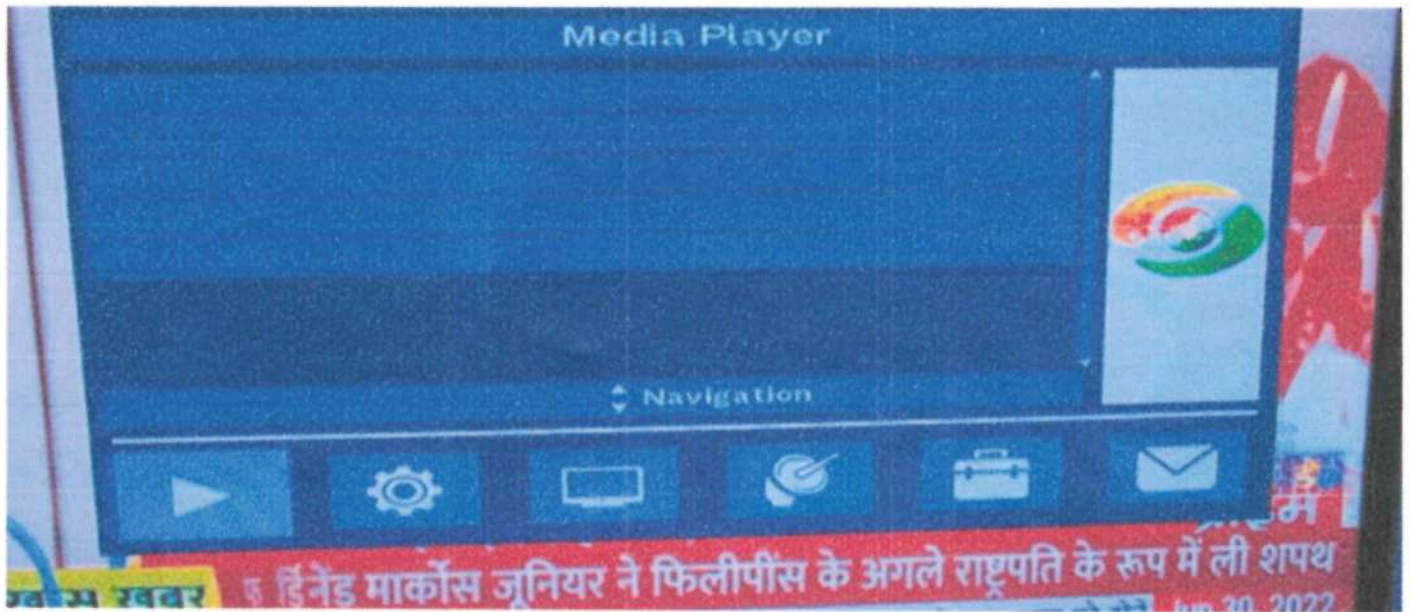
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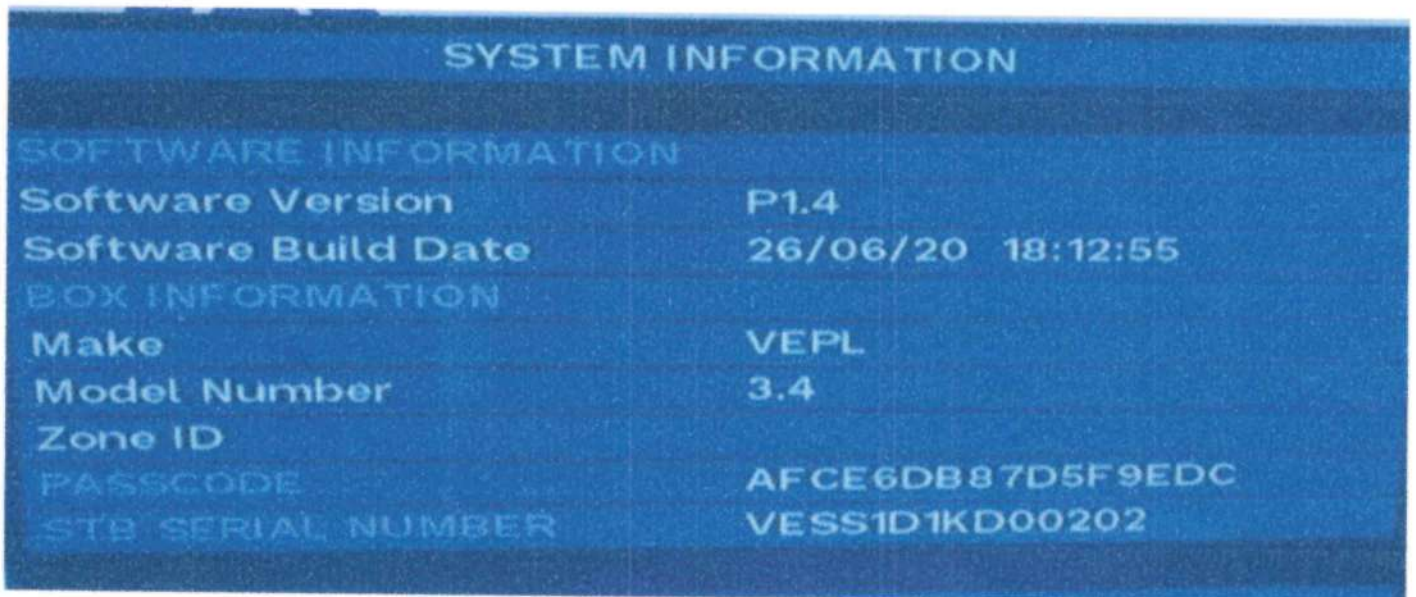
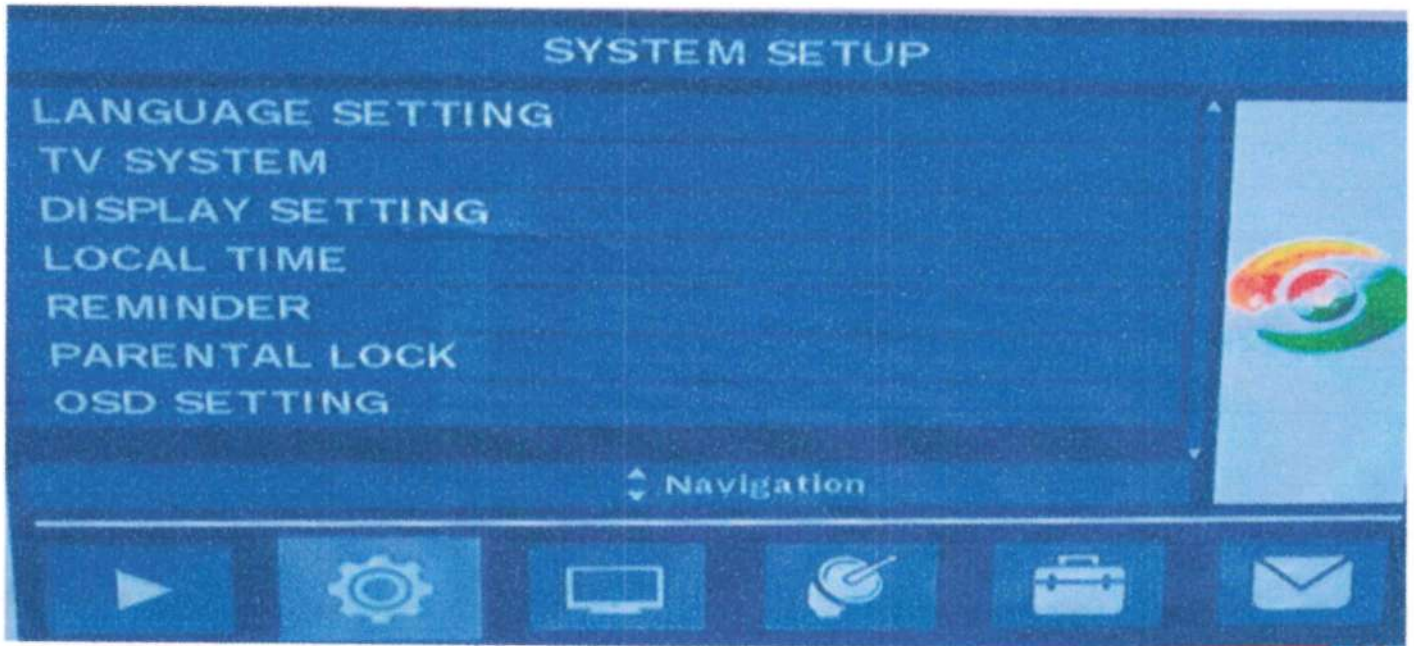
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