

Through PB website

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

Dated: 02/08/2022

Subject: Draft Technical specification for Mobile Journalist (Mojo) kits to be used for field coverage by DDKs/ RNUs.

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.

Assistant Engineer
Room No. 403,
Directorate General: Doordarshan,
Doordarshan Bhawan, Copernicus Marg,
New Delhi -110001 (India)
Telephone: **011- 2311 4401/4403**

Specification For: Draft Technical specification for Mobile Journalist (Mojo) kits to be used for field coverage by DDKs/ RNUs.

Specification no: SD 07/2022 Dated 19/07/2022.

Due Date to offer Comments: 16.08.2022

Encl.: As above (09 Pages)

Signed by Narendra Kumar
Choursiya
Date: 02-08-2022 17:49:46
Reason: Approved
(N.K. Chaurasia)
Assistant Engineer
Doordarshan Directorate: Doordarshan

PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
DIRECTORATE GENERAL: DOORDARSHAN

Technical Specifications for Mobile Journalist (Mojo) kits
to be used for field coverage by DDKs /RNUs

Specifications No.: SD 07/2022
Dated: 19.07.2022

1. SCOPE:
The specifications lay down the performance characteristics of Mobile Journalist (Mojo) kits along with associated equipment/software required for field coverage in r/o Doordarshan Kendras (DDKs) and Regional News Units (RNUs).

- 2. GENERAL:**
- (a) The Offered product should be from reputed manufacturer and the quoted model should be field proven and in use by leading broadcasters/media houses/agencies for field reporting purposes. The bidder should essentially submit the list of the broadcasters/media houses/agencies to whom the quoted model has been supplied. The tenders without the proper user list shall liable to be rejected.
 - (b) The bidder should not include and quote for end of life equipment.
 - (c) The bidder shall submit only one solution (Single BOM) for the offered system. Any bid with multiple options (BOMs) is liable to be rejected.
 - (d) The Bill of Material required is given in **Appendix-I**. The bidder is required to provide the complete list of items & accessories etc. offered to meet the specification requirement in the following proforma:

Sr. No.	Description / Name of the item	Make	Model	Part No., if any	Qty.
1.	2.	3.	4.	5.	6.

- 3. Eligibility Criteria:**
- a) The bidder should have a proven track record of supplying and maintaining the Mojo kits or similar single devices for live streaming purposes and for sending the recorded A/V clips for leading broadcasters/media houses/agencies. The bidder should submit the following relevant documents which will corroborate its experience and ability, required to undertake this project:
 - (i) Minimum of one such project equivalent to or more than 80% of the estimated cost of this project, or
 - (ii) Minimum of two such projects, each equivalent to or more than 60% of the estimated cost of this project, or
 - (iii) Minimum of three such projects, each equivalent to or more than 40% of the estimated cost of this project.

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Contact details of clients for whom work has been done and cited as relevant experience, are required in the bid.

Cut-off date for the experience shall be the last date of bid submission for this project.

Experience documents including copies of signed contracts and/or work orders supported by self-certified documents confirming that the design, build, operation and value of the project/spare in accordance with the requirements stated above shall necessarily have to be submitted along with the bid, without which the bid is liable to be rejected.

Any entity not possessing the relevant work experience and/or experience of executing such projects equaling to or more than the value as specified above, but are interested in bidding for the project as stated above, may tie up with a partner possessing such experience. The two parties will necessarily have to sign a notarized MOU (Memorandum Of Understanding) specifically for the execution of this project. The said MOU will have to be notarized before the submission of the bid. Both members entering this notarized MOU shall be jointly responsible for the execution of the project. Experience document/s, as mentioned above, should be submitted alongwith the bid. In the absence of such document/s, as stated above, the bid is liable to be rejected.

- b) The bidder should be registered under the Companies Act 1956 or the Companies Act 2013 or should be a Partnership firm/ LLP registered in India under the Partnership Act 1932/2008, as amended, and should have been in operation in India for at least the last 3 Years.
- c) The average annual turnover or Net Worth (CA certified document) for the last 03 Financial Years (*Except the Financial Years affected by Covid i.e. FY 2020-21 and FY 2021-22*) should be:
 - (i) Average Annual Turnover equivalent to or more than 100% of the estimated cost of this project, in the last 03 financial years (FYs 2017-18, 2018-19, 2019-20), or
 - (ii) Cumulative Turnover equivalent to or more than 300% of the estimated cost of this project in the last 03 financial years (FYs 2017-18, 2018-19, 2019-20), or
 - (iii) Average Annual Net Worth of a minimum of 50% of the estimated cost of this project in the last 03 financial years (FYs 2017-18, 2018-19, 2019-20), or
 - (iv) Cumulative Net Worth of a minimum of 150% of estimated cost of this project in the last 03 financial years (FYs 2017-18, 2018-19, 2019-20)
- d) The bidder should be Solvent as on the bid submission date. Self certification by the bidder to confirm the above has to be submitted along with the bid.
- e) The bidder should not be blacklisted /debarred by any Government organization in India as on the bid submission date.

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4. ESSENTIAL FEATURES:**a) Editing**

- Use 6 video/audio tracks
- Use 6 additional audio tracks
- Edit with the enhanced magnetic timeline with insert/overwrite and link/unlink clips
- Display track headers for locking, hiding, and muting tracks
- Use preset transitions or create your own
- Display preview on an external monitor
- Add markers with notes to the timeline
- Cut, copy, paste in timeline and between projects

b) Effects

- Layer effects; green screen, luma and chroma keys, blurs, distort, styles and color
- Stabilize videos with integrated Lock and Load Stabilizer
- Use powerful color correction tools
- Select from included color LUTs like FiLMiC deLog or import .cube or .3dl

c) Audio

- Fine tune audio perfectly with the Graphic EQ
- Keyframe audio levels, panning and EQ for perfect mixes
- Isolate tracks on multiple track files
- Add third-party audio plugins

d) Titler

- Create multilayer titles with shapes and images
- Adjust font, color, face, border and shadow
- Import custom fonts
- Save and share title presets

e) Media Library

- Use media directly from Photos, GNARBOX, WD Wireless, Frame.io
- Edit direct from USB-C drives
- Import media: cloud storage, SanDisk iXpand and SMB network drives
- Use for free: dozens of royalty-free music, sound fx, videos, and backgrounds
- View detailed metadata for media
- Rename, add notes, and color-tag
- Sort and search to quickly find out

f) Share

- Easily share to the Photos app, YouTube, Vimeo, Box, Dropbox, Google Drive, OneDrive, iCloud Drive or "Other App" including Airdrop to Mac
- Export directly to SanDisk iXpand Flash drives and network drives including WD Wireless Pro and the new WD Wireless SSD
- Export at a variety of resolutions and qualities up to 4K (on supported iPhones and iPads)

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- Export at different frame rates (18, 23.976, 24, 25, 29.97, 30, 48, 50, 59.94, 60, 120 and 240)
- Inject VR Metadata for uploading 360° videos Quickly share a snapshot photo of any frame in the project to Photos Export audio only and video only
- Easily share movies with control over resolution, quality, and format
- Create a snapshot of any frame
- Archive projects for backup or edit on another device

g) Mobile

- 6.1 inch (diagonal) all screen OLED display.
- Fingerprint-resistant oleophobic coating.
- Support for display of multiple languages and characters simultaneously.
- Storage capacity 256 GB
- RAM 6 GB
- IP68 Rated water & Dust Resistant (maximum depth of 6 metres up to 30 minutes) under IEC standard 60529.
- 2532x1170-pixel resolution at 460 ppi
- Display: Super Retina XDR display, True Tone display, Wide color display (P3) & Haptic Touch.
- Contrast ratio :- 20,00,000:1
- Brightness: 625 nits max brightness (typical); 1,200 nits max brightness (HDR)
- Camera: Dual 12MP camera system: Ultra Wide and Wide cameras with Wide: $f/1.6$ aperture, Ultra Wide: $f/2.4$ aperture and 120° field of view, 2x optical zoom out and Digital zoom up to 5x.
- Video Recording : HDR video recording with Dolby Vision up to 4K at 30 fps, 4K video recording at 24 fps, 25 fps, 30 fps or 60 fps, 1080p HD video recording at 25 fps, 30 fps or 60 fps, 720p HD video recording at 30 fps and Optical image stabilization for video.
- Cellular & Wireless: 5G (sub 6 GHz) with 4x4 MIMO4, Gigabit LTE with 4x4 MIMO and LAA4, Wi Fi 6 (802.11ax) with 2x2 MIMO, Bluetooth 5.0 wireless technology, Ultra Wideband chip for spatial awareness.
- Audio Playback: Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus and Dolby Atmos.
- Weight: should be less or equal to 162 grams.
- Power: Fast-charge capable: Up to 50% charge in 30 minutes.
- Battery: Video Playback up to 17 hours.

h) TRIPOD

- Material: Aluminum, Color: Black
- Item Dimension: 104.14mm x 104.14mm x 568.96mm
- Package Contents: 1-Piece Tripod
- Level Adjustment Width: 55mm to 157mm
- Mounting Screw Diameter: 1/4-th inch
- Mass: 1.3kg
- Easy portability and level height adjustment
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i) Handheld Microphone

- Upfront vocal presence in the mix. Nominal impedance : 300 Ω (at 1 kHz)
- Silent mute switch for flexibility and control
- Rugged all-metal housing
- Great feedback rejection
- Impedance : 300 Ohms
- Frequency response : 55 - 16,000 Hz
- Sensitivity : 1.8 mV/Pa (free field, no load at 1 kHz)

j) Lapel Microphone

- Clip-on Mic for Smartphones, DSLRs, camcorders, audio recorders, PC etc.
- High-quality condenser microphone, ideal for video use.
- Low handling noise.
- -10dB sound attenuation.
- Playback headphone monitoring in smartphone mode.
- Includes lapel clip, LR44 battery, foam windscreen, 1/4" adapter.
- Suitable adaptor to connect the microphone with offered mobile set.

k) Power Banks

- 10000mAh lithium-polymer battery
- Dual USB Output, Two- way Quick Charge, Input limit:: 4.4V ; Working temperature: 0 ~ 45 degree ; Charging time: 4.2 hours (18W charger, standard USB cable), 6.2 hours (10W charger, standard USB cable)
- Compatible with 5V/2A, 9V/ 2A and 12V/1.5A charging, Mi Power Bank 2 intelligently adjusts power output up to 18W to deliver fast and efficient charging for each connected device
- Material: Aluminum Alloy + CNC Edge ; Rated capacity: 3.85V/10000mAh (38.5Wh)
- Lithium Polymer Battery makes it more durable and optimizes charging efficiency.

l) Light:

- Suitable battery operated light align with the offered mobile set.
- Light should be mountable on the offered tripod.
- Colour temperature 3200 K- 5600K

5. ACCESSORIES:

All essential accessories including but not limited to adjustable mobile holders, cables, power supply units, softwares, connectors, rain-proof carrying case, etc. required to complete the system should be offered by the firm and the firm should certify the completeness of the system.

6. SOFTWARE:

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All necessary softwares required for proper working of the system are to be supplied in original and should be licensed to Doordarshan with perpetual validity.

7. COMPLIANCE:

A point by point full compliance statement laid down in the specifications is to be enclosed along with the offer in the format given below. Mere signature on the copy of DD specifications shall not be accepted as a compliance statement.

Figures, any mentioned, should be supported by record of these in the technical literature enclosed with the tender and reference to the page number of enclosed literature for all features and technical specifications should be mentioned in the relevant column. Offers without the compliance statement or with incomplete compliance statement will be liable to be rejected for which the sole responsibility shall be of the bidder. **Any deviation from the specification detailed in the compliance statement is to be highlighted separately.**

Sr. No of DD specs.	DD specs.	Compliance (Yes/No)	Performance Fig. of equipment Offered.	Reference to the Page Number of enclosed literature	Deviations, in case of non-compliance	Optional items if any reqd. to make the sys. Compliant to DD specs.	Features in the offered Product which exceeds DD specs.
1	2	3	4	5	6	7	8

8. TECHNICAL LITERATURE:

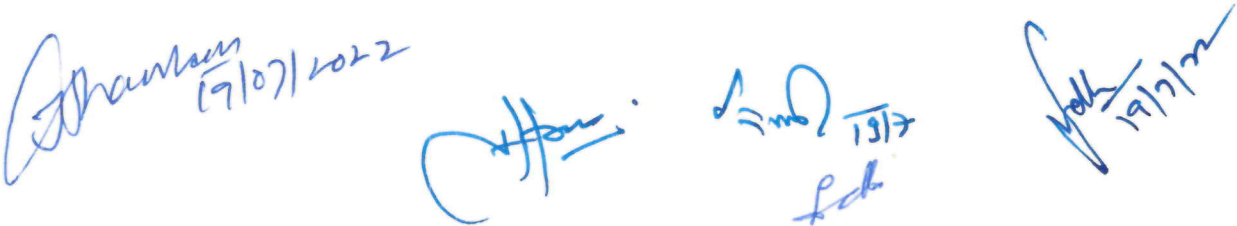
One set of technical manuals/brochures (in printed and/ or electronic form) of the offered equipment are required to be provided along with the tender to facilitate the technical evaluation, otherwise the tender is liable to be ignored. The successful bidder will have to supply a set of technical, user and installation manuals.

9. DEMONSTRATION:

If necessary, the bidder may be asked for demonstration of the offered system as part of the technical evaluation. In such case the bidder will have to make suitable arrangement for the demonstration of the offered system at Doordarshan Bhawan, New Delhi, on notice of 15 days. Accordingly the bidder should be in readiness for demonstration.

10. WARRANTY:

- a) The complete system including all items/equipment should be under warranty for **two years** of trouble free operation from the date of commissioning. Failure of any item including software and hardware within this period shall be rectified or replaced free of cost to Doordarshan.



- b) The warranty should cover all hardware, software and modules of the complete system.

11. DELIVERY PERIOD:

The delivery period will be within **08** weeks from the date of placement of order.

12. INSPECTION:

The equipment shall be subjected to inspection by Doordarshan officials at Delhi/ NCR premises of the successful bidder.

13. INCREASE OF THE QUNATITY:

Doordarshan has the right to increase the quantity by 50 percent, if required. This will be applicable within one year of placement of original order with a notice period of one month.

14. ENCLOSURES:

The bidder must necessarily upload the following documents along with the technical bid:

- Compliance statement with respect to all the points of the specifications should be submitted for offered equipment/item(s). The reference to the page number of enclosed literature for all features and technical specifications should be essentially mentioned in the relevant column of the compliance statement.
- Technical manuals/detailed technical literature/catalogues for the offered equipment/item(s) for substantiating the model no. and technical specifications.
- Model specific user list of the offered product(s).
- Any other document mentioned elsewhere in the tender document.

The tender is liable to be rejected in the absence of the above enclosures at the sole responsibility of the bidder.

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Appendix-I**INDICATIVE BILL OF MATERIAL REQUIRED**

Sr. No.	Item Description	Qty.
1.	Mobile unit with 256 GB Storage , 6 GB RAM along with Video editing tool needs to be pre-installed in the device for video editing and effects	130 nos.
2.	Professional Tripod	130 nos
3.	Hand-held Mic - Dynamic cardioid microphone for speech and vocals.	130 Sets
4.	Collar mic: 3.5mm Lavalier condenser Microphone	130 sets
5.	Power Banks: 10000 mAh power bank can recharge a Phone up to 3 times in one charge	130 sets
6.	Accessories including power adapter / cables and connecting cales.	130 sets

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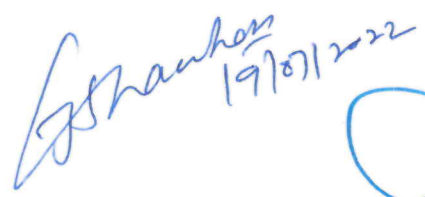
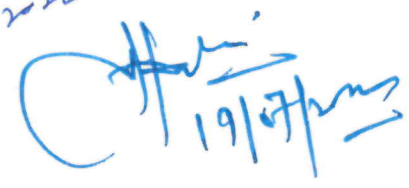

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Appendix-II**CONSIGNEE DETAILS**

Sl. No.	Zone	Location of Doordarshan Centre	Qty.
1.	North Zone	DD News Hq, New Delhi	10 Nos.
2.		Chandigarh	02 Nos.
3.		Dehradun	02 Nos.
4.		Hisar	02 Nos.
5.		Jaipur	05 Nos.
6.		Jalandhar	05 Nos.
7.		Jammu	02 Nos.
8.		Leh	05 Nos.
9.		Lucknow	05 Nos.
10.		Shimla	05 Nos.
11.		Srinagar	05 Nos.
		Varanasi	02 Nos.
		Gorakhpur	02 Nos.
12.	West Zone	Ahmedabad	05 Nos.
13.		Bhopal	08 Nos.
14.		Mumbai	05 Nos.
15.		Panaji	02 Nos.
16.		Raipur	02 Nos.
17.	South Zone	Bengaluru	05 Nos.
18.		Chennai	05 Nos.
19.		Hyderabad	05 Nos.
20.		Thiruvananthapuram	05 Nos.
21.		Vijaywada	02 Nos.
22.	East Zone	Agartala	02 Nos.
23.		Aizawl	02 Nos.
24.		Bhubaneswar	05 Nos.
25.		Guwahati	05 Nos.
26.		Imphal	02 Nos.
27.		Itanagar	02 Nos.
28.		Kohima	02 Nos.
29.		Kolkata	05 Nos.
30.		Patna	05 Nos.
31.		Ranchi	02 Nos.
32.		Shillong	02 Nos.
		Total	130 nos.

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