

PRASAR BHARTI  
BROADCASTING CORPORATION OF INDIA  
DIRECTORATE GENERAL: DOORDARSHAN

**SPECIFICATION FOR LIGHTWEIGHT CAMERA SUPPORT SYSTEM**

Specification No.: SD 19/2010  
Dated: 15.07.2010.

**1. SCOPE :**

These specifications lay down the performance requirement of Lightweight Camera Support System consisting of pan & tilt fluid head, two stage tripod with ground/ floor spreader to be procured for Doordarshan Network for outdoor applications.

**2. ESSENTIAL FEATURES:**

- 2.1 **The offered system should be from a reputed manufacturer and the quoted model should be field proven and in use by leading broadcasters. The bidder should essentially submit the list of the broadcasters to whom the quoted model has been supplied. The tenders without the proper user list are liable to be rejected.**
- 2.2 Tenderers are required to offer lightweight camera support system complete in all respect for outdoor application.
- 2.3 The pan & tilt fluid head should be effortless, easy to operate and should facilitate the operator to concentrate on shooting.
- 2.4 The head should be of high quality, lightweight, compact, reliable, stable, durable, robust and precise.
- 2.5 The camera /wedge plate should have rapid camera attachment in the field with adequate in built safety feature during camera set up and pull down.
- 2.6 Pan and Tilt drag system must be consistent across all temperature ranges and different payload within full range of settings with smooth starts and dead stops without any backlash for smooth pan and tilt movement.
- 2.7 Counterbalance system should be able to provide stability under demanding outdoor requirements.
- 2.8 Camera support system should have leveling bubble.
- 2.9 The head should be supplied with Telescopic Pan Bar with Clamp

- 2.10 The camera support system should have two stage lightweight, corrosion resistant, break-proof, durable and robust material matching tripod which should also be highly stable under specified payload.
- 2.11 Tripod should incorporate fast and secure clamping/locking system. It should be vibration free and should offer easy height adjustment.
- 2.12 The camera support system should have Ground/ floor spreader for stability and flexibility on uneven field conditions.
- 2.13 The lightweight camera support system will consist of following items.

- a) Pan & Tilt fluid head One No.
- b) Two stage tripod One No.
- c) Telescopic Pan Bar with Clamp One No.
- d) Lightweight Spreader One No.
- e) Carrying Case (Soft) One No.
- f) Camera mounting plate/ Wedge plate One No.

- 2.14 The bill of material is given in **Appendix-I**.
- 2.15 The list of Doordarshan centres for which the equipment are being procured is available at **Appendix-II**.

**3. TECHNICAL SPECIFICATIONS:**

**3.1 PAN & TILT HEAD:**

I.	Payload Capacity Range	7 to 18Kg or higher
II.	Payload Capacity at 150mm C of G at full tilt range	10Kg or higher
III.	Pan Bar with clamp	1 No.
IV.	Tilt range	+ 90° /-70°
V.	Pan range	360°
VI.	Ball Base	100 mm
VII.	Tilt/Pan Drag	Continuously adjustable or in steps
VIII.	Camera Mounting Plate	Wedge plate as per the international standards to support broadcast ENG camera manufactured by reputed camera manufacturer.

**3.2 TWO STAGE TRIPOD:**

I.	Load Capacity	25 Kg. or more
II.	Minimum height	55 cm or less
III.	Maximum height	155 cm or more

**3.3 GROUND SPREADER:**

Matching Ground/ Floor Spreader should also be offered
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**4. COMPLIANCE:**

- (a) Any substandard product included in the offer may cause the rejection of complete offer with the sole responsibility of bidder.
- (b) The firm should provide the offered un-priced bill of material in electronic form also in addition to the hard copy for ease of technical evaluation.
- (c) **A point-by-point compliance statement from the principal manufacturer in respect of all the points laid down in these specifications is to be enclosed along with the offer in the format given below. Mere signature on the copy of the specifications shall not be accepted as a compliance statement.**

**The figures so 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 liable to be rejected with the sole responsibility 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.

**5. ACCESSORIES:**

All the essential accessories required to complete the system should be offered by the bidder. **The bidder should certify the completeness of the system in all respect.** All the optional items should be quoted separately. The bidder must provide enough details about such optional items to decide its utility.

**6. DOCUMENTATION:**

One set of printed technical and operation & maintenance manuals for all the offered products are to be provided on non-returnable basis along with the tender to facilitate the technical evaluation, otherwise the tender is liable to be ignored. The successful bidder will have to supply one set of printed operation, service and maintenance manuals with respect to each item.

**7. GUARANTEE:**

- a) The system should be guaranteed for two years of trouble free operation from the date of supply. In case of any equipment failure including software and hardware within this period, the same shall be rectified or replaced free of cost to Doordarshan.
- b) The guarantee should cover all hardware and modules of the complete system.

**8. DEMONSTRATION:**

If necessary, the firm may be asked for demonstration of the offered system as part of the technical evaluation. In such case the firm will have to make suitable arrangement for the demonstration of the offered system at Doordarshan Bhawan, New Delhi, on notice of 21 days. Accordingly the firm should be in readiness for demonstration on a notice of 21 days.

**9. INSPECTION:**

The equipment shall be subjected to inspection by authorized Doordarshan officials at New Delhi.

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**10. ENCLOSURES:**

The bidder must necessarily submit the following enclosures along with the technical bid:

- (a) Compliance statement with respect to all the points of the specifications duly signed by the OEM.

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.

- (b) Technical manuals/Detailed technical literature/catalogues for all the offered products for substantiating the model no. and technical specification.
- (c) **Model specific User list of the offered product.**
- (d) Any other document mentioned elsewhere in the tender document.

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

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**Appendix-I**

**Bill of Material Required**

<b>Sl. No.</b>	<b>Details of Item</b>	<b>Quantity</b>
1.	Lightweight Camera Support System including Pan & Tilt head, two stage tripod, ground spreader, camera mounting plate, soft carrying case and other accessories	20 Sets
2.	Operation manual/User Guide/ Technical Manual/ Installation Manual etc.	20 Sets
3.	Service & Maintenance Manuals	20 Sets

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**LIST OF DOORDARSHAN CENTRES**

<b>Sl. No.</b>	<b>Zone</b>	<b>Location of Doordarshan Centre</b>	<b>Qty.</b>
1.	<b>North Zone</b>	Delhi	5 sets
2.	<b>East Zone</b>	Kolkata	5 sets
3.	<b>South Zone</b>	Chennai	5 sets
4.	<b>West Zone</b>	Mumbai	5 sets
<b>TOTAL</b>			<b>20 sets</b>

