

**PRASAR BHARATI**  
(Broadcasting Corporation of India)  
**DIRECTORATE GENERAL: DOORDARSHAN**  
**DOORDARSHAN BHAWAN, COPERNICUS MARG,**  
**NEW DELHI – 110001**

Dated: 24/02/2023

**BID EXTENSION NOTICE**

In continuation to already advertised Notice Inviting e-Tender (NIT-07)/2022-23 dated 23.12.2022 bearing tender no. 8(6)2022-23/E1 (P) TV for Procurement of 3G,HD-SDI Camera Channels (Upgraded to UHD). The last date of submission & opening of bid has been extended due to administrative reasons. Now the tender will be opened on **10.03.2023 at 11:00 Hrs.** The tender submission date will be **09.03.2023** up to **17:00 Hrs.** The other terms and conditions remain the same.

Extension notice may also be seen at Doordarshan/PB websites:  
<https://prasarbharati.gov.in/tenders>, e-Procurement Portal of Prasar  
Bharati <https://prasarbharati.eproc.in> & CPP Portal  
<https://eprocure.gov.in>.

Signed by Rakesh Gupta  
Date: 26-02-2023 21:36:46  
Reason: Approved  
**(Rakesh Gupta)**  
Assistant Director (Engg.)  
For Director General, Doordarshan

**Through e-Procurement Portal of PB**  
**Clarification-I**

PRASAR BHARATI  
(India's Public Service Broadcaster)  
DIRECTORATE GENERAL: DOORDARSHAN  
DOORDARSHAN BHAWAN, COPERNICUS MARG,  
NEW DELHI – 110001

**File No- 8(6)2022-23EI(P)TV**

**Dated: 24/02/2023**

M/s .....Prospective bidders.....  
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**Subject:** Procurement of 3G, HD-SDI Camera Channels (Upgraded to UHD)

**Ref:** - 1. DG: DD Tender Enquiry No. 8(6)2022-23EI(P)TV

2. Queries from prospective bidders received through e mails.

Sir,

References above the following Clarification of queries from prospective bidders point wise for Procurement of 3G, HD-SDI Camera Channels (Upgraded to UHD) available in Annexure –I

All prospective bidders may submit their quotation considering Clarification as above.

All other terms & conditions of the tender remain unchanged.

Encl.: Annexure –I

**Signed by Rakesh Gupta**  
**Date: 26-02-2023 21:33:24**  
**Reason: Approved**

(Rakesh Gupta)  
Assistant Director (Engg.)  
For Director General

E-mail:- ddpurchase401@yahoo.co.in

**1. Shotoku Broadcast System**

<b>Sl.No.</b>	<b>DD Specs No.</b>	<b>Amendment requested by the bidder</b>	<b>DD's Response</b>
1.	2.XV	We would like to draw your kind attention to the specifications required for Camera Support System, the specifications ask for 30 KG payload capacity at 150 mm center of Gravity, whereas the Center Of Gravity of actual mounting equipment will depend upon the make and model of all mounting equipment like camera, lens, view finder etc. Therefore, we request you to define your requirements of maximum payload capacity and leave the center of gravity on the bidders, who may choose the right model to give you the best performance.	Required details are already stated. Please refer to tender document.
2.	General Technical Specification III	We request you to also consider "Semi Hard Carrying case with caster" which is lighter and stackable	Please refer to tender document

**2. Visual technologies India Pvt. Ltd.**

<b>Sl.No.</b>	<b>DD Specs No.</b>	<b>Amendment requested by the bidder</b>	<b>DD's Response</b>
1.	2.I	We understand that you will be using these cameras in your TV studios, as per the practice followed for each camera for TV studio, two lengths of cables are required, a. Cable from CCU to TV Studio. b. Cable from TV Studio wall box TV camera in the studio. Therefore, we request you to define these two lengths for each studio	Please refer to tender document
2.	2.II	All HD Cameras from various manufacturers support 1000 Horizontal TV lines resolution, please replace 800 TV lines to 1000 TV lines.	Already stated 1000 Horizontal TV lines or better in the tender document. Please refer to tender document
		Slog-3 is a SONY term. Out of five known manufacturers of TV	It is not mandatory.

3.	2.III	studio cameras namely Ikegami, Panasonic, Hitachi, Sony and GV, only GV and SONY offer Slog-3. Therefore, only two bids will be able to qualify for this tender/ procurement. Kindly consider dropping proprietary term to attract more competition. HLG is the industry standard which was developed by NHK and BBC. It meets requirement of every possible adverse shooting conditions. It is also recommended by Ultra HD forum, ITU & SMPTE etc and is supported by all the manufacturers.	Please refer to tender document
4.	2.VIII	SMPTE 2110 solution for production or you are looking for CCU controls over IP for remote production.	Please refer to tender document
5.	2.X	a. 3G (1920x1080p) b. UHD TV (3840 x 2160)/50p c. 12G SDI d. SMPTE 2110 e. 1080/50 & 1080/50p  As & when required or simultaneously?	Please refer to tender document
6.	2.XV	We request you to change +/-90-degree tilt range to +90 to -70-degree tilt range. -90- degree tilt is never required for studio operations of the camera.	Tilt range required is +85 degree to -70 degrees with perfect functional counterbalance. Please refer to tender document
7.	BOM Sr. No. I.1	As all the five manufacturers support better specifications, for fair competition we request to change following specifications. Sensor: CMOS with global shutter Sensitivity: F 11 (with 2000 lx, 3200K, 89.9% reflectance) S/N Ratio: 62 dB Resolution: 1000 Horizontal TV lines Gain: -6 dB to +12 dB Depth of Modulation: better than 55% (At center 55% or higher modulation depth) Lens Mount: B4 Lesser specification cameras have been discontinued by almost all the manufacturers. Therefore, its requested to change the above specs to bring more transparency.	Please refer to tender document

8.	Camer a Chains	<p>Clause No. if: The specification states that CCU should be able to offer unconverted UHD single link 12G SDI Output.</p> <p>Kindly allow an external unit/ converter also to achieve this requirement.</p>	Please refer to tender document
		<p>Clause No. VIII: Bi-directional signal routing between camera heads and base station should be enabled with IP routing via a Telco network.</p> <p>To achieve the routing via a telco network will be many requisites, especially when it should be operable intercity and interstate.</p> <p>Therefore we request you to drop this requirement as you have already asked for the uncompressed video over IP and CCU data on IP.</p>	<p>Please refer to tender document in respect of what is expected herein from the bidder.</p> <p>Telco network with necessary support is to be ensured by DD/ PB.</p>
		<p>Clause No. X: Besides 3G, the base station/ CCU should also provide 12G-SDI and SMPTE 2110 IP Video Output, HDTV outputs</p> <p>Kindly allow an external unit/ converter also to achieve this requirement</p>	Please refer to tender document
9.	I.1	The specification has not specified the Bowl base size required; it should say 150mm bowl base.	Please refer to tender document
10.	7	In our industry most of the manufacturers are giving a warranty of one year, additional warranties are extended by them as SLA. We request you to use term warranty or SLA for the ease of bidding.	<p>Incorrect assumption.</p> <p>Please refer to tender document</p>
11.		Since these cameras are not manufactures in India you can take make in India content as 0%	MII exemption is available vide M/o I&B letter dated 01.02.2023

12.		Estimated cost for one camera chain on date will be approximately INR 43,00,000/-per chain Above calculations are based on USD/INR parity 1 USD-INR 80.	-
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### 3. Sun Broadcast Equipment's Pvt. Ltd

Sl.No.	DD Specs No.	Amendment requested by the bidder	DD's Response
1.	2.II	Following specifications should be included.  1.4K Global Shutter MUST be available in the camera being the Latest technology providing significantly improved image quality and faithful reproduction of moving objects Pls see White Paper enclosed (Page No. 4). 2. The offered camera shall be State of the art latest Model; End of Life Product will not be accepted. 3. Camera should have 1000 TV Lines minimum.	Please refer to tender document
2.	2.III	In 4K domain HDR and WCG are applicable. Hence Please delete Slog-3	S Log-3 is not mandatory. Please refer to tender document
3.	2.VI	For Quick and reliable control of all cameras Hardware based Master Control Unit (MCU) Should be used instead of software control panel	Software gives much more flexibility. Please refer to tender document
3.	GT 1.2	As UHD/ 4K domain is also required in the camera processing, only 4K/ HD digital processing is possible in Camera. SDTV processing should be removed	SDTV processing is not mentioned in the tender document. Please refer to tender document
4.	GT 1.7	In 4K domain HDR and WCG are applicable. Hence Please delete Slog-3	S Log-3 is not mandatory. Please refer to tender document
5.		PREBID MEETING shall be conducted before final Tender Submission.	As discussed in review meeting on BIND, it is not required

**4. M/s FOR-A India Private Limited**

<b>Sl.No.</b>	<b>DD Specs No.</b>	<b>Amendment requested by the bidder</b>	<b>DD's Response</b>
1.	General Qualification Criteria	<p>As per General Qualification Criteria of the NIT documents, we are short of the financial requirement, however in the past we have executed orders worth more than the tender value along with our principal. So, we like to request you to consider for an amendment in this point so that we can also submit our bid.</p> <p>Or</p> <p>Allow us to form a joint venture with our parent company M/s FOR-A Co Limited, Tokyo, whose financial credentials are quite good against the desired financial credentials. If it is permitted, we will submit all the related documents along with the bid and also an agreement with detailed roles in the bids.</p>	As per PB's current Procurement Policy
2.	4.6	As per clause no. 4.6 of the tender document, it is mentioned that this bid is reserved for the Indian Bidders only and make in India products will be procured. We like to inform you that studio cameras and lenses are not manufactured in India. So, we like to request you to kindly issue necessary exemption against make in India clause.	MII exemption is available from M/o I&B vide letter dated 01.02.2023.
3.	6	As per clause no 6 of the Specifications, the required delivery time is three months, we like to inform you that due to current pandemic and the war conditions, the availability is very limited and all manufacturers are having a very long lead time, it is almost not possible to complete the delivery of the said quantity within three months of the issue of PO. So, we like to request you to consider for a delivery time of at least eight months from the date of issue of the PO.	It is a priority project of PB. Please refer to tender document

4.		As per specification Camera chain with 12G Single link output from base station has been asked for, however we like to suggest you to go in for a full UHD camera chain, as a signal upgradation from base station does not have any technical advantage other than seamless integration with an existing 12G workflow. So, we like to request you to consider for a full UHD Camera chain.	Please refer to tender document
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#### 4. M/s Electronic Verve Pvt. Limited

Sl.No.	DD Specs No.	Amendment requested by the bidder	DD's Response
1.		We would like to request extension for minimum 20 to 25 days from the due date of submission, as we did not get a proposal from our OEM, they are on winter vacation till 10/01/2023, this extension would help us in submitting comprehensive and meaningful bid.	Not relevant now

#### 5. M/s Arraycom India Limited

Sl.No.	DD Specs No.	Amendment requested by the bidder	DD's Response
1.		Para (B) General Qualification Criteria as per attached document in the NIT -04/2022-23 mentions similar Work experience related to the estimated cost of the project. It is further mentioned that similar works will be defined based on scope of the work. Since As per tender specifications, scope of work defines Procurement of Multiviewers with 32 input (page 362), it is not clear if 'only' Multiviewers will constitute as similar work or 'studio equipment' or 'broadcast equipment' will also be accepted as scope of work. Please clarify in order to remove any ambiguity in this clause. Our suggestion is that Eligibility conditions should not restrict bidders as not many OEMs/bidders will be able to meet such General eligibility requirements (project value) specially in lieu of large quantities	Although does not pertain to Camera Channels tender. However, 'similar works' criteria under Eligibility Criteria is elaborated in the tender document, now



		of scope of work (Multiviewers) as required in the subject tender.	
2.		<p>Clause para 4.6 Preference to Make in India As per Para 4.6.2 only Class I and Class II local suppliers are eligible to bid in the tender. Please clarify the following with regard to Class I and Class II local suppliers. (i) Para 4.6.9.1 mentions that at the time of bidding, supplier will self-certify the local content requirement and indicate the percentage of local content. It also specifies that supplier will give details of location where local value addition is made. In case of above Para, please advise the situation in which the local supplier has done a MOU with the OEM to manufacture/assemble product under technology collaboration agreement ( as mentioned in DPIIT Order Dated 16th Sep 2020 ) for phased manufacturing of the product developed abroad with clear phasing of increase in local content. Also please refer to Office memo dated 03.08.2021, Annexure II. We would like to state here that any Indian supplier will engage in product manufacturing when there is sufficient demand in the market. For e.g. in this subject tender case also, the product manufacturing will commence only when department ( in this case Prasara Bharti ) will place the order of the required quantities on the local supplier who has done MOU with foreign OEM of the product. Please advise if this is acceptable to Prasara Bharti so that the local supplier can participate in the tender as Class I or Class II ( as the case may be depending on percentage of local content ) and submit an MOU accordingly. During evaluation, if required, the supplier can demonstrate the locally manufactured product (1 unit) to ascertain the fulfillment of the technical specifications of the subject tender. However, the local supplier can participate in the tender along with required EMD as above only when Prasara Bharti clearly mentions the acceptance of such MOU and above procedure in the tender so as there is no ambiguity within terms and conditions of the tender.</p>	MII exemption is available vide M/o I&B letter dated 01.02.2023

3.		Reference is made to Para 2.1.28 For Consortium /Joint Venture Please clarify with regard to above clause the following points; (i) The lead bidder (leader) as per Para 2.1.30 will be responsible for submitting EMD and PBG in the subject tender. Please clarify if acceptable. (ii) As per clause 2.1.30 the payment will be made to Consortium/ JV, however, the payment should be made to lead bidder as per the Consortium MOU. Please clarify if acceptable as the GST, PAN, Bank Account details etc. will be applicable of the lead bidder in individual capacity.	As per PB's current Procurement Policy
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#### 6. Imagine Communications India Pvt. Limited

Sl.No.	DD Specs No.	Amendment requested by the bidder	DD's Response
1.		Points do not pertain to Camera Channels	

#### 7. M/s Panasonic India Pvt. Limited

Sl.No.	DD Specs No.	Amendment requested by the bidder	DD's Response
1.		HD Sensor Upgrade to UHD at Base station Suggestion: 4k Native sensor camera will perform better in this	Please refer to tender document
2.		1000 Horizontal lines Suggestion : With 2000 Horizontal lines	Please refer to tender document

## 794025/2023/Studio Design Section - DG DD

3.		Bi directional signal routing between camera & CCU If camera & CCU Connected Optical cable in Hybrid mode – Suggestion: Bi directional communication & signal flow is there already. Please specify any specific requirement	Bidirectional agnostic of distance. Please refer to tender document
4.		Via, Telco Network Telco network specification –  Suggestion: any specific port specifications	Please refer to tender document
5.		Control, Video, Intercom, Tally & trunk on same ethernet cable Video & Trunk on same cable  Suggestion: – any specific reason	Please refer to tender document
6.		At Base station 12G Output with ST2110  Suggestion: – - HD Upscale -to 12G – quality will lost	Please refer to tender document
7.		Broadcast quality EFP UHD Digital Zoom UHD lens Suggestion: –IF Sensor is HD Only – HD lens will match the quality	Should be aware of industry reality. Please refer to tender document
8.		UHD TV 3820x2160 Confirming with SMPTE 2082-10 and ITU - R BT.2020 UHD -SDI : 11.88Gb/s From Base station  Suggestion: If Sensor is HD -- How come it will be BT.2020 Color space	Please refer to tender document
9.		3 x 2/3 Sensors with HD TV Standard, 1000 Horizontal lines  Suggestion: If 12 G Out required – why not 4k sensor camera  Software For Controlling the camera System from PC or tab	Please refer to tender document
10.		Broadcast quality EFP UHD Digital Zoom UHD lens Suggestion: IF Sensor is HD Only – HD lens will do	Should be aware of industry reality. Please refer to tender document

**E-Mail**

**PRASAR BHARATI**  
(Broadcasting Corporation of India)  
**DIRECTORATE GENERAL: DOORDARSHAN**  
**DOORDARSHAN BHAWAN, COPERNICUS MARG,**  
**NEW DELHI – 110001**

File No. 8(6)2022-23/E1 (P) TV

Dated: 24/02/2023

To

Directorate General of Commercial  
Intelligence and Statistics,  
565, Anandapur, Ward No. 108,  
Sector- 1 , Plot No. 22, ECADP  
Kolkata – 700107

Subject: - Publication of bid extension notice in respect of tender no.  
8(6)2022-23/E1 (P)TV.

Sir,

Please find enclosed copy of Bid Extension Notice in respect of Tender no. 8(6)2022-23/E1 (P) TV, same may kindly be published in the Indian Trade Journal immediately as date of tender opening has already been finalized. The copy of all published notices may please be forwarded to this office immediately for further necessary action.

Encl.: - As above.

Signed by Rakesh Gupta  
Date: 26-02-2023 21:11:35  
Reason: Approved

**(Rakesh Gupta)**

Assistant Director (Engg.)

For Director General

E-mail:- ddpurchase401@yahoo.co.in

**PRASAR BHARATI**  
(Broadcasting Corporation of India)  
**DIRECTORATE GENERAL: DOORDARSHAN**  
**DOORDARSHAN BHAWAN, COPERNICUS MARG,**  
**NEW DELHI – 110001**

Dated: 24/02/2023

**BID EXTENSION NOTICE**

In continuation to already advertised Notice Inviting e-Tender (NIT-07)/2022-23 dated 23.12.2022 bearing tender no. 8(6)2022-23/E1 (P) TV for Procurement of 3G,HD-SDI Camera Channels (Upgraded to UHD). The last date of submission & opening of bid has been extended due to administrative reasons. Now the tender will be opened on **10.03.2023 at 11:00 Hrs.** The tender submission date will be **09.03.2023** up to **17:00 Hrs.** The other terms and conditions remain the same.

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<https://eprocure.gov.in>.

Signed by Rakesh Gupta  
Date: 26-02-2023 21:36:46  
Reason: Approved  
**(Rakesh Gupta)**  
Assistant Director (Engg.)  
For Director General, Doordarshan

e-Procurement Portal of PB  
Addendum / Amendment

PRASAR BHARATI  
(India's Public Service Broadcaster)  
DIRECTORATE GENERAL: DOORDARSHAN  
DOORDARSHAN BHAWAN, COPERNICUS MARG,  
NEW DELHI – 110001

**File No - 8(6)2022-23EI(P)TV**

**Dated: 24/02/2023**

M/s ...Prospective bidders.....  
.....  
.....

**Subject:** Procurement of 3G, HD-SDI Camera Channels (Upgraded to UHD)

**Ref:** - DG: DD Tender Enquiry No. 8(6)2022-23EI(P)TV

Sir/Madam,

The following addendum and amendment is authorized in the above mentioned Tender Enquiry :-

**[A] Addendum in Clause 3-(VIII) to the Technical Specification document -**

Clause detail	Existing Text	Addendum Text
Clause 3 (VIII)	"Bi-Directional Signal routing between the Camera heads and the Base Stations/CCUs should be enabled with IP routing via a Telco network to support live remote production. Control, Video, Return video, Intercom, Tally and Ethernet Trunk should all be transported over the same IP network( on the same cable). This network should be independent of distance, i.e. the camera connectivity with the IP hub/control room should be operable intercity and inter-state	"Bi-directional signal transmission between the camera head/ adaptor and the Base Station/ CCU should be enabled via Telco provided IP network to support live remote production. Control, Video, Return Video, Intercom, Tally and Ethernet trunk should all be transported over the same network on a single cable. The network ought to be independent of distance to ensure remote production where the control room hub may be at a significant distance or in a city different

	across the country.”	from where the cameras are operating.  Other infrastructure including SFPs, IP Convertors to ensure IP from venues till the base stations in the OB Van / Remote Hubs will need to be provided by the bidder for completeness of the system. For further clarity, IP switches on both ends shall be provided by the Telco service provider to ensure signal transportation
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**[B] Addendum in Tender Enquiry and the BID DOCUMENT:-**

1. A new clauses is inserted under the heading “eligibility criteria” on page 15 of the document. This clause is numbered as 2.16.4 and details are as follows:

“The bidder should have a proven track record of supply of broadcast equipment or provision of broadcasting services or combination of both to renowned broadcasters or media houses or other renowned organizations during the last 10 years.”

2. A new para is further inserted under the heading “delivery period” clause 3.1.9 on page 51 of the bid document, the details are as follows:

“Entire lot of equipment consisting of 3G, HD-SDI Camera Channels (Upgraded to UHD (31 sets) is to be delivered within the Delivery period of 03 months from the date of placement of Order to the successful bidder. However, part delivery of the lot, in phases, within the Delivery Period, is permitted. In case of part delivery, in phases, within the Delivery Period, commensurate part payment is permitted.

Delivery period does not include the time for training.”

**[c] The following amendment is authorized in the above mentioned Tender Enquiry:-**

<b>Tender Document Clause No./ Page No.</b>	<b>Existing Text</b>	<b>Amended Text</b>
4.6.2	Only ‘Class-I local supplier’	Only ‘Class-I local

	and 'Class-II local supplier' as defined under this tender shall be eligible to bid in procurements undertaken by procuring entities, except when global Tender enquiry has been issued. In global Tender enquiries, 'Non-local suppliers' shall also be eligible to bid along with 'Class-I local supplier' and 'Class-II local supplier'.	supplier' and 'Class-II local supplier' as defined under this tender shall be eligible to bid in procurements undertaken by procuring entities. As exemption from make in India clause has been granted in this tender, non-local suppliers, as defined under clause, 4.6.1.4, shall also be allowed to bid alongside Class-I and Class-II local suppliers, subject to fulfilling of other terms and conditions of the Tender document.
4.6.6	"Class-II local supplier" will not get purchase preference.	"Class-II local supplier" and "Non-Local supplier" will not get purchase preference.
Form -11	Annexure-11 (Form-11)	Revised Annexure-11 (Form-11)(Copy enclosed)

All prospective bidders may submit their quotation considering addendum as above.

All other terms & conditions of the tender remain unchanged.

This issues with the approval of the competent authority.

Enclosed – 1. Revised Annexure-11 (Form-11)

**Signed by Rakesh Gupta**

**Date: 26-02-2023 21:23:33**

**Reason: Approved**

(Rakesh Gupta)

Assistant Director (Engg.)

For Director General

E-mail:- ddpurchase401@yahoo.co.in



## ANNEXURE-11 (FORM-11)

### Self-Certificate for Local Content

\*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 50% and come under 'Class-I Local Supplier' Category. As being 'Class-I Local Supplier', we are eligible for Purchase Preference under 'Make in India' Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019, 04.06.2020 and 16.09.2020, or latest order, if any, will be applicable)

OR

\*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is more than 20% but less than 50% and come under 'Class-II Local Supplier' Category.

OR

\*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is below 20%, equal to \_\_\_\_\_% and come under 'Non- Local Supplier' Category.

The details of the location(s) at which the local value addition made is/are as under:

1.....

2.....

3.....

**\* Strike out whichever is not applicable**

Date:

Seal & Signature of the Bidder