



प्रसार भारती/ PRASAR BHARATI
भारत का लोक सेवा प्रसारक/ INDIA'S NATIONAL PUBLIC SERVICE BROADCASTER
आकाशवाणी महानिदेशालय/DIRECTORATE GENERAL: ALL INDIA RADIO
योजना और विकास एकक आकाशवाणी भवन, संसद मार्ग, नई दिल्ली-110001
P & D UNIT, AKASHVANI BHAWAN, SANSAD MARG, NEW DELHI-110001
[क्रय अनुभाग/PURCHASE SECTION]

No. 01(61)11/NIT-38/2020-D(P)E/ 2425

Dated: 07.10.2020

Corrigendum/ Addendum-IV to NIT-38/2020

Reference: 1. Tender No.12(52)01/10kW/2020/D(P)/670-D(P-S)Cell/E for the Supply of 10 kW Digital Compatible VHF FM solid state MOSFET Technology based Broadcast Transmitter (Liquid Cooled) in 1+1) Configuration and Associated Equipments / items.

2. Tender no. 12(59)01/20kW/2020/D(P)672-D(P-S)Cell/E for the Supply of 20 kW Digital Compatible VHF FM solid state MOSFET technology based Broadcast Transmitter (Liquid Cooled) in (1+1) Configuration and Associated Equipments / items.

The following comments / amendments / extension of bid submission / opening date for the tenders mentioned below are hereby authorized-

A. Tender No.12(52)01/10kW/2020/D(P)/670-D(P-S)Cell/E for the Supply of 10 kW Digital Compatible VHF FM solid state MOSFET Technology based Broadcast Transmitter (Liquid Cooled) in 1+1) Configuration and Associated Equipments / items-

- M/s Arraycom (India) Ltd. vide letter No. AIL/AIR/10kW/FMTx/2K20 dated 11.09.2020,
- M/s Rohde & Schwarz India Pvt. Ltd. vide letter dated 21.09.2020 and
- M/s Horizon Broadcast LLP letter dated 22.09.2020 have been examined by the Technical Specification Committee and accordingly, following clauses of AIR specification No: 10 kW FM TX/47/January/2020-D (TD/FM)-Rev.2 are amended as under.

M/s Arraycom (India) Ltd

1. Clause No. 1.9, Guarantee

No change is required in the specification.

2. Clause No. 1.10, Inspection

Amendment in this regard already issued.

3. Clause No. 1.13, Training

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As per AIR specification, OEM's Engineer(s) shall train total 30 (Thirty) AIR Engineers at no cost to AIR. So, training charges is not included in the schedule of requirements/materials.

4. Section-V(A), Item No. 6 at page no. 27, RF Coaxial Switch

No change is required in the specification.

5. Clause No. 2.11 (iv) UPS

UPS shall not be the part of supply in respect of this tender.

M/s Rohde & Schwarz India Pvt. Ltd.

1. Commercial point

Request may not be accepted.

2. Clause 2.0

No change is required in the specification.

3. Clause 2.0 (a)

The clause 2.0 (a) may be read as

Each 10 kW Digital Compatible FM Transmitter shall be supplied with two Exciter units i.e. one set of 10 kW Digital Compatible FM Transmitter in (1+1) configuration shall have total four Exciter Units. The second Exciter unit will work as hot or active standby in automatic changeover mode (with manual override) which will also incorporate auto audio (Analog L/R, AES/EBU, RDS/DARC, SCA) changeover. The automatic changeover of Exciter should take place in case of failure of active Exciter.

in place of

Each 10 kW Digital Compatible FM Transmitter shall be supplied with two Exciter units i.e. one set of 10 kW Digital Compatible FM Transmitter in (1+1) configuration shall have total four Exciter Units. The second Exciter unit will work as hot or active standby in automatic changeover mode (with manual override) which will also incorporate auto audio (Analog L/R, AES/EBU, RDS/DARC, SCA) changeover. The automatic changeover of Exciter should take place when power of active Exciter goes down by $\geq 3\text{dB}$.

4. Clause 2.0 (c).

No change is required in the specification.

5. Clause 3.3 (3.3.3), Inputs

The Clause 3.3(3.3.3) may be read as

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3.3.3	Analog and AES/EBU input Level for $\pm 75\text{kHz}$ (peak) Deviation:	ANALOG AUDIO INPUT: Input Level adjustable from -6 dBu to + 6 dBu. AES/EBU AUDIO INPUT: Input Level adjustable from -12 dBFS to 0 dBFS
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in place of

3.3.3	Analog and AES/EBU input Level for $\pm 75\text{kHz}$ (peak) Deviation:	ANALOG AUDIO INPUT: Input Level adjustable from -6 dBu to + 6 dBu. AES/EBU AUDIO INPUT: Input Level adjustable from -15 dBFS to 0 dBFS
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M/s Horizon Broadcast LLP

1. Clause 1.18 DEMONSTRATION OF THE OFFERED EQUIPMENT THROUGH WEB CONFERENCING:

The tenderer will have to arrange a demonstration of the offered Transmitter through web-conferencing during technical evaluation stage, if required by AIR, within 10 days of the issue of request letter. Accordingly, the tenderer should be in readiness for web demonstration, failing which the tender offer is liable to be rejected without any further correspondence.

Functional checking as per AIR specification under Section-II and performance measurements as per AIR specification under Section-III will be carried out on a single transmitter during web demonstration. The tenderer is also required to show the Digital compatibility of the transmitter (HD **OR** DRM+) during web demonstration. Complete system in (1+1) configuration will be carried out during PDI only.

The tenderer will also have to make all necessary arrangement for functional checking/testing of the offered transmitter with full rated power including equipments required for checking the digital compatibility of the transmitter in (HD **OR** DRM+) during web demonstration. All expenses & liabilities for demonstration through web-conferencing of above offered VHF FM transmitter will be borne by the tenderer. This web demonstration will be purely for Technical Evaluation of the offered VHF FM transmitter and is without any commitment for acceptance of offer.

in place of

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The tenderer will have to arrange a demonstration of the offered Transmitter through web-conferencing during technical evaluation stage, if required by AIR, within 10 days of the issue of request letter. Accordingly, the tenderer should be in readiness for web demonstration, failing which the tender offer is liable to be rejected without any further correspondence.

Functional checking as per AIR specification under Section-II and performance measurements as per AIR specification under Section-III will be carried out on a single transmitter during web demonstration. Complete system in (1+1) configuration and Digital compatibility of the transmitter will be carried out during PDI only.

The tenderer will also have to make all necessary arrangement for functional checking/testing of the offered transmitter with full rated power during web demonstration. All expenses & liabilities for demonstration through web-conferencing of above offered VHF FM transmitter will be borne by the tenderer. This web demonstration will be purely for Technical Evaluation of the offered VHF FM transmitter and is without any commitment for acceptance of offer.

2. Clause 3.9 (3.9.1) & 3.9 (3.9.2), Digital Operation under Section-III:

The sub-clause 3.9.1 & 3.9.2 are now merged and may be read as

3.9.1	MER (Modulation Error Ratio) at 30% of nominal RF Output Power of transmitter for pure digital mode in HD/DRM+.	Better than or equal to 32dB @ 16-QAM.
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in place of

3.9.1	MER (Modulation Error Ratio) for HD Radio	To be given by the tenderer.
3.9.2	MER (Modulation Error Ratio) for DRM+	To be given by the tenderer for 16-QAM & 4-QAM respectively.

B. Tender No. 12(59)01/20kW/2020/D(P)672-D(P-S)Cell/E for the Supply of 20 kW Digital Compatible VHF FM solid state MOSFET technology based Broadcast Transmitter (Liquid Cooled) in (1+1) Configuration and Associated Equipments / items.

- M/s Praniskom Solutions Pvt. Ltd. letter dated 24.08.2020,
- M/s Harriban Broadcasting & Communication LLP letter No. HBB/DG:AIR/200911-2 dated 11.09.2020
- M/s Rohde & Schwarz India Pvt. Ltd. vide letter dated 21.09.2020 and

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- d. M/s Horizon Broadcast LLP dated 22.09.2020 have been examined by the Technical Specification Committee and accordingly, following clauses of AIR specification No: 20 kW FM TX/2/April/2020-D (TD/FM) are amended as under.

M/s Praniskom Solutions Pvt. Ltd

1. Clause B(d)

No change is required in the specification.

2. Clause 4.1.6, Dummy Load

No change is required in the specification.

3. Clause 1.8, Delivery Period of Equipment

The clause 1.8 may be read as

Supply will have to be completed within five months from the date of Acceptance of Tender or four months from the date of the Decision Letter from WPC(wherever is required) in respect of RF equipment, provided by AIR, whichever is later.

in place of

Supply will have to be completed within four months from the date of Acceptance of Tender or three months from the date of the Decision Letter from WPC(wherever is required) in respect of RF equipment, provided by AIR, whichever is later.

M/s Rohde & Schwarz India Pvt. Ltd.

1. Commercial point

Request may not be accepted

2. Clause 2.0

No change is required in the specification.

3. Clause 2.0 (a)

The clause 2.0 (a) may be read as

Each 20 kW Digital Compatible FM Transmitter shall be supplied with two Exciter units i.e. one set of 20 kW Digital Compatible FM Transmitter in (1+1) configuration shall have total four Exciter Units. The second Exciter unit will work as hot or active standby

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in automatic changeover mode (with manual override) which will also incorporate auto audio (Analog L/R, AES/EBU, RDS/DARC, SCA) changeover. The automatic changeover of Exciter should take place in case of failure of active Exciter.

in place of

Each 20 kW Digital Compatible FM Transmitter shall be supplied with two Exciter units i.e. one set of 20 kW Digital Compatible FM Transmitter in (1+1) configuration shall have total four Exciter Units. The second Exciter unit will work as hot or active standby in automatic changeover mode (with manual override) which will also incorporate auto audio (Analog L/R, AES/EBU, RDS/DARC, SCA) changeover. The automatic changeover of Exciter should take place when power of active Exciter goes down by $\geq 3\text{dB}$.

4. Clause 2.0 (c).

No change is required in the specification.

5. Clause 3.3 (3.3.3), Inputs

The Clause 3.3(3.3.3) may be read as

3.3.3	Analog and AES/EBU input Level for $\pm 75\text{kHz}$ (peak) Deviation:	ANALOG AUDIO INPUT: Input Level adjustable from -6 dBu to + 6 dBu. AES/EBU AUDIO INPUT: Input Level adjustable from -12 dBFS to 0 dBFS
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in place of

3.3.3	Analog and AES/EBU input Level for $\pm 75\text{kHz}$ (peak) Deviation:	ANALOG AUDIO INPUT: Input Level adjustable from -6 dBu to + 6 dBu. AES/EBU AUDIO INPUT: Input Level adjustable from -15 dBFS to 0 dBFS
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M/s Harriban Broadcasting and Communication LLP

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Clause No. 1.13, Training

As per AIR specification, OEM's Engineer(s) shall train total 15AIR Engineers at no cost to AIR. So, training charges is not included in the schedule of requirements/materials.

M/s Horizon Broadcast LLP

1. Clause 1.18 DEMONSTRATION OF THE OFFERED EQUIPMENT THROUGH WEB CONFERENCING:

The tenderer will have to arrange a demonstration of the offered Transmitter through web-conferencing during technical evaluation stage, if required by AIR, within 10 days of the issue of request letter. Accordingly, the tenderer should be in readiness for web demonstration, failing which the tender offer is liable to be rejected without any further correspondence.

Functional checking as per AIR specification under Section-II and performance measurements as per AIR specification under Section-III will be carried out on a single transmitter during web demonstration. The tenderer is also required to show the Digital compatibility of the transmitter (HD OR DRM+) during web demonstration. Complete system in (1+1) configuration will be carried out during PDI only.

The tenderer will also have to make all necessary arrangement for functional checking/testing of the offered transmitter with full rated power including equipments required for checking the digital compatibility of the transmitter in (HD OR DRM+) during web demonstration. All expenses & liabilities for demonstration through web-conferencing of above offered VHF FM transmitter will be borne by the tenderer. This web demonstration will be purely for Technical Evaluation of the offered VHF FM transmitter and is without any commitment for acceptance of offer.

in place of

The tenderer will have to arrange a demonstration of the offered Transmitter through web-conferencing during technical evaluation stage, if required by AIR, within 10 days of the issue of request letter. Accordingly, the tenderer should be in readiness for web demonstration, failing which the tender offer is liable to be rejected without any further correspondence.

Functional checking as per AIR specification under Section-II and performance measurements as per AIR specification under Section-III will be carried out on a single transmitter during web demonstration. Complete system in (1+1) configuration and Digital compatibility of the transmitter will be carried out during PDI only.

The tenderer will also have to make all necessary arrangement for functional checking/testing of the offered transmitter with full rated power during web

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demonstration. All expenses & liabilities for demonstration through web-conferencing of above offered VHF FM transmitter will be borne by the tenderer. This web demonstration will be purely for Technical Evaluation of the offered VHF FM transmitter and is without any commitment for acceptance of offer.

2. Clause 3.9 (3.9.1), 3.9 (3.9.2) & 3.9 (3.9.3), Digital Operation under Section-III:

The sub-clause 3.9.1, 3.9.2 & 3.9.3 are now merged and may be read as

3.9.1	MER (Modulation Error Ratio) at 30% of nominal RF Output Power of transmitter for pure digital mode in HD/DRM+.	Better than or equal to 32dB @ 16-QAM.
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in place of

3.9.1	MER (Modulation Error Ratio) for HD Radio	To be given by the tenderer.
3.9.2	MER (Modulation Error Ratio) for DRM+	To be given by the tenderer for 16-QAM & 4-QAM respectively.
3.9.3	Simulcast FM operations with HD/DRM+	Analog & Digital Power with bandwidth requirement for HD & DRM+ may be specify.

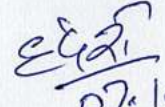
Extension of tender submission / opening dates:

Sl. No.	Tender Ref. No.	Description of Stores	Tender Submission Date (Online)		Tender Opening Date (Online)	
			FOR	READ	FOR	READ
1	No.12(52)01 /10kW/2020 /D(P)/670-D(P-S)Cell/E	Supply of 10 kW Digital Compatible VHF FM solid state MOSFET Technology based Broadcast Transmitter (Liquid Cooled) in 1+1) Configuration and Associated Equipments / items	07.10.2020 (02:30 PM)	28.10.2020 (02:30 PM)	07.10.2020 (03:00 PM)	28.10.2020 (03:00 PM)

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NOTE:

- i. The bid forms, General Instructions to Bidders and other details including amendments/ changes can be viewed/ downloaded from the website <http://prasarbharati.eproc.in>.
- ii. Tender notice is also available on the PrasarBharati website www.prasarbharati.gov.in (using the link: Tender) and CPP PORTAL on website <http://eprocure.gov.in>.


07.10.2020

(हृदेशकुमार/ Hirdesh Kumar)

निदेशक (अभि.)/ Director (Engg.)

कृतेमहानिदेशकआकाशवाणी/for Director General: All India Radio

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