



JAIPUR METRO

**JAIPUR METRO RAIL CORPORATION LIMITED**

(A Govt. of Rajasthan undertaking)

**Directorate of Operations & Systems**

3<sup>rd</sup> Floor, Administrative Building, Bhrigu Path, Mansarovar, Jaipur- 302020

Tel. No. 0141-2822106 (O), E-mail – [edst@jaipurmetrorail.in](mailto:edst@jaipurmetrorail.in)



No.- F2(34)/JMRC/O&S/S&T/AMC-VIDEO WALL SYSTEM/2019-20/

Dated: 08/08/2019

To,

M/s Barco Electronics System Pvt. Ltd,  
A-72, Gate No-2, Sector 64, Noida-201301  
Utter Pradesh, India

Email: [shailendra.verma@barco.com](mailto:shailendra.verma@barco.com)

Subject: "Single source bid for Initial Repair/Replacement and CAMC for Video Wall System".

Single source Sealed bid is invited for Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning, multicasting redressal and Comprehensive Annual Maintenance Contract for whole Video wall system of Barco Electronics make installed at Security Control Room, Mansarovar Metro Depot in JMRC as per Bid document attached. The rates shall be quoted in BOQ in the bid document.

Signed, stamped and sealed offers should reach in the Office of DGM (S&T), Room no. 317, 3<sup>rd</sup> Floor, Admin Building, Mansarovar Metro Train Depot, Bhrigu path, Mansarovar, Jaipur-302020 by 19/08/2019 at 15:00 hrs positively. Bid will be opened on 19/08/2019 at 15:30 hrs.

Executive Director (S&T)

JAIPUR METRO RAIL CORPORATION LTD.

Encl:-Bid document

Registered office: Admin Building, Metro Depot, Bhrigu Path, Mansarovar, Jaipur - 302020

CIN: U60221RJ2010SGC030630

Website: <http://transport.rajasthan.gov.in/jmrc>

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# 1. NOTICE INVITING BID(NIB)

Jaipur Metro Rail Corporation (JMRC) Ltd. Invites tender for CAMC from OEM i.e M/s Barco Electronics System Pvt. Ltd through sealed envelope (Single Stage One Envelope Method) as detailed below:

## KEY DETAILS

a)	Name of Work	"Initial Repair/Replacement and CAMC for Video Wall System"
b)	NIB/ Bid No.	F2(34)/JMRC/O&S/S&T/AMC-VIDEO WALL SYSTEM/2019-20/ Dated: 08/08/2019
c)	Approximate Estimated Cost (including GST )	Rs. 38,95,000/-
d)	Last Date for submission of Bid	15:00 hrs on 19/08/2019
e)	Time & Date of Opening of Bid	15:30 hrs on 19/08/2019
f)	Performance Security	10% of the contract amount
g)	Venue of Physical Submission and Opening of Bid	O/o DGM (S&T), Room no. 317 , 3 <sup>rd</sup> Floor, Admin Building, Mansarovar Metro Train Depot, Bhriugu path, Mansarovar, Jaipur-302020
h)	Validity of Bid	90 days from the last date of submission of bid.
i)	Execution of works	The period of Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning and multicasting redressal will be of 45 days from LOA and the period of CAMC will be 36 month. This CAMC will start after 30 days from the date of commissioning of said servers as per clause 4 of ITB

Note:

1. The contract is governed by RTPP Act 2012 and RTPP Rules 2013
2. In case of any further details required, the same can be collected from the office of ED(S&T)

Executive Director (S&T)

JMRC, Room no. 314, 3<sup>rd</sup> Floor, Admin Building,  
Mansarovar Metro Train depot, Jaipur – 302020  
Tel: +91-141-2822106, Email: [edst@jaipurmetrorail.in](mailto:edst@jaipurmetrorail.in)

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## 2. INSTRUCTIONS TO BIDDER

### 2.1 OBJECTIVE OF THE BID

Through this Bid, JMRC seeks Single source Sealed bid for Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning, multicasting redressal and Comprehensive Annual Maintenance Contract for whole Video wall system of Barco Electronics make installed at Security Control Room, Mansarovar Metro Depot in JMRC.

### 2.2 INTRODUCTION

Sealed bid is invited for tender for CAMC from OEM i.e M/s Barco Electronics System Pvt. Ltd through Bid No. **F2(34)/JMRC/O&S/S&T/AMC-VIDEO WALL SYSTEM/2019-20/** “Initial Repair/Replacement and CAMC for Video Wall System” by Jaipur Metro Rail Corporation Limited, hereinafter called the ‘Employer’ in accordance with this Bid Package. The Bid Document consists of the following:

- 1) Notice Inviting Bid (NIB)
- 2) Instructions To Bidder (ITB)
- 3) Special Conditions of Contract (SCC)
- 4) Technical Specifications and Scope of work
- 5) Grievance Redressal during Procurement process
- 6) Financial Bid - Bill of Quantities
- 7) Forms
  - (i) Form A- Format of Bank Guarantee for Performance Security
  - (ii) Form B-Contract Agreement

Note: -

- (A) If the date of opening is declared holiday, then Bids will be opened on next working day.
- (B) Approved GCC is applicable and available on the JMRC website successful service provider shall sign the complete GCC submit to the JMRC.

### 2.3 SUBMISSION OF BID

- a) The Proposal duly filled in and complete in all respects must be submitted in a sealed envelope at the JMRC office clearly marked as “CONFIDENTIAL” “Initial Repair/Replacement and CAMC for Video Wall System” with NIB No./ Bid No. and shall be addressed to:

Executive Director(S&T)

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- b) All pages the bid of shall be signed by the Service provider in token of acceptance of all the terms and conditions of the bidding documents.
- c) The BOQ shall be filled in this Bid document itself.

## 2.4 Language of Bidding

- a) The Bid, as well as all correspondence and documents relating to the Bid exchanged by the service provider and the procuring entity, shall be written only in English/ Hindi Language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English/ Hindi language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

## 2.5 Negotiations

- d) Negotiations may, however, be undertaken with the Service provider when the rates of any job type are considered to be much higher than the prevailing market rates or the rates quoted for that job type by other service providers.
- e) The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
- f) A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee, after recording reasons, may reduce the time, provided the lowest or most advantageous Service provider has received the intimation and consented to regarding holding of negotiations.
- g) Negotiations shall not make the original offer made by the Service provider inoperative. The bid evaluation committee shall have option to consider the original offer in case the Service provider decides to increase rates originally quoted or imposes any new terms or conditions.

## 2.6 Conflict of Interest

JMRC requires that M/s Barco Electronics System Pvt. Ltd. shall provide their services in a professional, objective and impartial manner and at all times hold JMRC's interest paramount, avoid conflicts with other assignments or its own corporate interests, and act without consideration for further work/services. M/s Barco Electronics System Pvt. Ltd. shall not engage either directly or indirectly any other agency for the work during the contract period and any business or professional activities, which would conflict with activities assigned.

## 2.7 Termination for Default

The Bid sanctioning authority of JMRC may, without prejudice to any other remedy for breach of contract, by a written notice of default of at least 30 days sent to the supplier/ Contractor, terminate the contract in whole or in part: -



- a. If the supplier/ Contractor fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by JMRC; or
- b. If the supplier/ Contractor fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or
- c. If the supplier/ Contractor, in the judgment of the Purchaser, is found to be engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
- d. If the supplier/ Contractor commits breach of any condition of the contract.

If JMRC terminates the contract in whole or in part, amount of Performance Security Deposit may be forfeited.

Before cancelling a contract and taking further action, advice of senior most finance person available in the office and of legal adviser or legal assistant posted in the office, if there is one, may be obtained.

## 2.8 Performance Security:

2.8.1 Prior to execution of Contract Agreement, Performance security shall be solicited from the successful Bidder as per format attached as Form 'A'.

2.8.2 The amount of performance security shall be 10% of the contract amount.

2.8.3 Performance security shall be furnished in any one of the following forms: -

- a. Bank Draft or Banker's Cheque of a scheduled Commercial bank;
  - b. Bank guarantee/s of a scheduled Commercial bank. It shall be got verified from the issuing bank.
- 3 Performance security above shall remain valid for a minimum period of 41 months from issuance of LOA and must include all contractual obligations of the Bidder, including warranty/guarantee/Defect liability period obligations, if any.
- 4 Forfeiture of Performance Security: Security amount in full or part may be forfeited, including interest, if any, in the following cases:-
- a. When any terms and condition of the contract is breached.
  - b. When the Bidder fails to make complete supply satisfactorily.
  - c. If the Bidder breaches any provision of code of integrity, prescribed for Bidders, specified in the bidding document.
- 5 Notice will be given to the Bidder with reasonable time before Performance Security deposited is forfeited.





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- 6 The Performance security shall be discharged once the Contract period as mentioned in bid document is over.
- 7 No interest shall be payable on the Performance Security Deposit.

**3. Special Conditions of Contract (SCC):-**

1. Service provider should have valid GST registration number and should submit with bid document.
2. Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning, multicasting redressal is to be executed within 45 days from the issue of purchase order and Comprehensive Annual Maintenance Contract for whole Video wall system of Barco Electronics make installed at Security Control Room, Mansarovar Metro Depot in JMRC will only start after 30 days from the date of installation of the replaced item.
3. Bid name and Bid No should be mentioned on the sealed offer.
4. Payment Terms-
  - No payment in advance shall be considered.
  - After ensuring the workability of both replaced servers and video wall view by JMRC, payment of new items will be processed on receiving separate invoice for the said replacement/installation.
  - Payment for CAMC will be made on Quarterly basis after satisfactory services report by the JMRC nominated staff.
5. Inspection Authority: By Nominated JMRC representative.
6. Validity of offer:- Service provider is required to keep offer open at least NINETY days (90 days) from the date of bid opening.
7. Duration of CAMC contract: Three year after 30 days from the date of Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning, multicasting Redressal.
8. The offer shall be unconditional and JMRC has the right to reject the bid in any stage.
9. The contract is governed by RTTP Act 2012 and RTTP Rules 2013.
10. Collection of faulty items during CAMC to send at Service centre for repairing shall only be arranged by the service provider. JMRC is not liable to pay any charges other than mentioned in financial bid.

**4. Technical Specifications and Scope of work**

Scope of the work of this bid will include the following services to keep the system in good working order as per clause 4.1 and 4.2:

- Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation & commissioning.

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- Multicasting redressal.
- Comprehensive Annual Maintenance Contract of whole Video wall system of Barco Electronics make installed at Security Control Room, Mansarovar Metro Depot in JMRC for three year following Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning, and multicasting Redressal.

**4.1 Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning and multicasting Redressal**

This work will include Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation & commissioning, Multicasting redressal preceding Comprehensive Annual Maintenance after issuing of Letter of Acceptance (LOA).

Currently, one NGP-124 server and one CMS IBM sever of Video wall system of Barco Electronics make installed at Security Control Room, Mansarovar Metro Depot in JMRC are not in working condition. Both servers are EOL/EOS products which are to be changed with new one latest as well as compatible version. After installation and configuration of both new servers with existing system, multicasting redressal is to be done to enable the live view of all camera installed in Jaipur Metro on Video wall.

Multicasting redressal herein means with the availability of view for all the cameras installed at Jaipur Metro at the said installed Video Wall continuously without any fluctuation, hang, flickering etc.

**Table 1**

S.No.	Faulty items	Make	Qty	To be installed
1	NGP 124 server	Barco Electronics	01	NDN 210 server
2	CMS IBM server	Barco Electronics	01	CMS DELL server

- Service provider shall only be liable or responsible for any damages during transportation of the new items till installation.
- Multicasting redressal shall be done within 45 days from the date of issuing of LOA. The new items will be installed with submission of the following reports:-
  - ✓ Factory Acceptance Test report
  - ✓ System Acceptance Test Report
  - ✓ Detail of the replaced items with Technical data sheet.
  - ✓ Warranty detail.
- Taken over of the new items will only be done by JMRC after checking workability. The new items will be installed at Security Control Room, Mansarovar Metro Depot in JMRC and their workability will be under observation for 30 days.
- After ensuring the workability of both servers and video wall view, payment of new items, if required, will be processed on receiving separate invoice for the said replacement/installation.







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- CAMC will only start after 30 days from the date of installation of the new items for the period of three year.

**4.2 Comprehensive Annual Maintenance:-**

Comprehensive Annual Maintenance of Video wall system installed at Security Control Room, Mansarovar Metro Depot in JMRC will include services, repairs and replacements (if necessary) to upkeep the Video wall system of Jaipur Metro in good working condition and shall include following scope of work as minimum:-

- a) **Preventive Maintenance:** The preventive maintenance shall be done on Half yearly basis. His scope of work includes working of whole video wall unit check-up, general cleaning, Technical update, repair/replacement of components, Color Matching & Geometry Adjustment and the activities listed down at para 4.2.3 as a minimum. It shall also cover the maintenance activity as per the standard Barco checklist and agreed by JMRC. The final preventive check list is to be get approved by JMRC prior to start of CAMC.
- During preventive maintenance, engineer shall record the observations in the log book/service report with his signature in addition to day to day attending of faults/Maintenance when reported by JMRC staff. The contractor will submit the preventive maintenance service report after performing the same and should be endorsed by JMRC staff.
- b) **Corrective/Breakdown Maintenance:**  
Breakdown/Corrective maintenance calls as & when required in event of failure of the Offered maintenance Contract services are Comprehensive in nature, which will ensure improvement in following area:
  - Proactive Service
  - High uptime
  - Quality Service by OEM
  - System Functionality
  - Protection from inflation under longer contract.
  - Predictive cost

The Service plan for executing the work for corrective maintenance shall include the following procedures:-

- In case of any failure/fault, a complaint will be logged through call/e-mail for which a complaint ticket No. will be issued. The ticket number will be tracking reference for both parties till the closure of failure/fault.
- In first step, the failure may be attended by providing telephonic/on call support to JMRC staff. If failure rectified by telephonic/on call support then the complaint ticket will be closed automatically.
- The response time for Breakdown/corrective maintenance call –Telephonic support/remote support shall be within 4 business hours i.e. between 9am to 6pm Monday to Sunday.
- But if the failure could not be rectified on telephonically, then the visit of contractor's engineer is necessitated within next business day (Intervention time between 9am-6pm Monday to Sunday).

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- The contractor will attend to all the calls from JMRC on all working days. The urgent, immediate and unavoidable calls are also to be attended before and after the usual office time and even on holidays. However, the reasonable time would be allowed for the specific jobs on the merits of the jobs. JMRC reserves the rights to decide any job as urgent or unavoidable depending upon the nature and venue of the job. The Service provider is liable to take the maintenance job in the holidays due to urgency of work/ instruction of the In-Charge, Telecom of this Office.
- The contractor shall provide helpline number with a list of maintenance staff/engineer together with the contact mobile/ telephone number who can be contacted for support in case of emergency.
- If any part of the system found faulty during failure then the faulty part/item shall be replaced by the service provider from its own spares. Service provider shall have to maintain his own spare including following consumables items i.e. Lamp and Dust filter) however other consumables like Screen, Mirror, Cables, Structure, Dimmer, keyboard, Mouse will be maintained by JMRC for CAMC.
- For any malfunctioning/ failure of any hardware device, part/ component, contractor will replace/ rectify the part/ parts with the same/ similar part number or the latest parts available from the original manufacturer along with the warranty details of the replaced item/part.
- The spare part for replacement shall be received within 03 day from the response time.
- The maximum time to restore the failure 05 days in case of spare part replacement otherwise 02 days.
- It's the responsibility of BESL to arrange the device drivers of the items of any used under different operating systems.
- In case of intermittent failures and repetitive problems due to improper diagnosis or repair, the items will be treated as continuously down.
- The equipment will be handed over back to JMRC after the AMC period in good working condition.

## General Terms and conditions

- Response time, MTTR and penalty will be same as per clause 4.2.1 & 4.2.2 for both preventive and corrective maintenance.
- The contractor should depute only qualified / experienced technicians for carrying out the preventive and corrective maintenance work.
- Other than regularly preventive maintenance, the contractor's Engineer shall also be engaged during preventive maintenance scheduled by JMRC's staff in case of assistance required by JMRC. Any abnormality of the system found during preventive maintenance shall also be considered a part of Comprehensive AMC and same shall be reported to contractor through telephonically, sms or e-mail and contractor shall attend the call and carryout corrective maintenance / rectification. Contractor shall make his all out efforts to adhere the time schedule of preventive as well as corrective maintenance.
- Collection of faulty items during Initial Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and CAMC to send at

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Service centre for repairing shall only be arranged by the service provider. JMRC is not liable to pay any charges other than mentioned in financial bid.

- For the engineer to visit the site before and during contract period, visit charges, accommodation, fare charges etc. shall be borne by the bidder only.
- The contractor shall provide escalation matrix along with contact details.
- Only authorized staff of Contractor having proper Photo Identity Card issued by the Contractor and with Permission granted by EMPLOYER, shall be permitted to work. The Contractor will have to submit the list of Authorized staff along with a set of the Photo identity Cards to which permission will be required to be issued by EMPLOYER

**4.2.1 Time Frames:**

S. No.	Description	Time Frame
1	The response time for Breakdown/corrective maintenance call –Telephonic support/remote support	4 business hours i.e. between 9am to 6pm Monday to Sunday
2	Visit of contractor's engineer (if the failure could not be rectified on telephonically)	next business day (Intervention time between 9am-6pm Monday to Sunday).
3	Replacement of spare part	03 day from the response time
4	maximum time to restore the failure	05 days in case of spare part replacement otherwise 02 days.

**4.2.2 PENALTY:**

If service provider is failed to meet the time frame mentioned in clause 4.2.1 then penalty will be imposed as following which will be deducted from the Quarterly payment for the CAMC charges:

S.No.	Description	Penalty
1	Beyond 1 day and within 5 days	Rs. 500/- per day
2	After 5 days	Rs. 1000/- per day
3	Maximum Penalty	5% of AMC Value

**Table 2: Detail of Equipment/ Machine and Location during CAMC period:**

System Description	Sub System Description	Make	Quantity ( in nos)	Location
Video Wall System	Central Management Server(CMS)	M/s Barco Electronics Systems	02	Security Control Room, Mansarovar Metro Depot, JMRC
	Network Visualization Output Node(NGP/NDN-201)		02	
	MLV Engine		04.	
	DVI Switcher		02.	

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BCMS Server	Pvt. Ltd.	01 nos.	
Other sub system/component viz. Lamp, Dust filter, Image retention on LCD, Screen, Mirror, Cables, Non Barco items- touch panel, Dimmer, keyboard, Mouse etc.	N/A	N/A	

**4.2.3 Brief detail of Services under CAMC:-**

S. No	Activity	JMRC	BESL	Remarks
1	Half Yearly preventive maintenance		✓	As per Standard agreed Barco Checklist
2	Manpower for Cleaning Activity during the Preventive Maintenance	✓		Under Supervision of Barco Engineer
3	Breakdown calls - Telephonic Support/ Remote Support (between 9am-6pm Monday to Sunday.)		✓	Within 4 Business Hrs.
4	Breakdown calls - On Site Support		✓	Within 1 Next business day
5	Spare Part Replacement		✓	Advance swap will be sent within 3 NBD from date of receipt of request for spare with Part no. & Sr. No.
6	Technical Updates ( Software)		✓	Will be checked/done during the Preventive maintenance visit
7	Consumables not included (Lamp, Dust filter & Image retention on LCD is not included)		✓	
8	Wear& Tear Items like Screen, Mirror Structure and Cables, Non Barco items like touch panel, Dimmer, keyboard, Mouse etc.)		✓	
9	Freight & Insurance included Defective return to Barco Noida - Logistics Paperwork		✓	
10	Road Permit/ Local tax for all inward material		✓	

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**4.2.4 Technical specifications of Video Wall System installed at JMRC**

The key features are listed below:

**Display Wall**

<b>Sr. No.</b>	<b>Feature</b>	<b>Parameter</b>
1	Resolution	SXGA+ (1400 pixels x1050 pixels)
2	Brightness	250 cd/m2
3	On-Screen contrast	1,250,000:1 (Dynamic)
4	Display Technology	Rear Projection DLP
5	White Point	6,500k
6	Brightness Uniformity	>95%
7	Screen	XMD, with 180D viewing angle
8	Light Source	3X six fold redundant LED block
9	Light Source Lifetime	>60,000 hours, >80,00 hours (eco)
10	Aspect Ratio	4:3
11	Power consumption	Max. 270W, typical 200W, eco 150W
12	Dimensions (WxD)	1220mm X 915mm
13	Pixel Clock	320 Mhz
14	Operating Voltage	90-240 VAC, 50-60Hz
15	Operating Temperature	10° - 40°c
16	Operating Humidity	80% non condensing

**Display Controller**

<b>Sr. No.</b>	<b>Feature</b>	<b>Parameter</b>
1	Processor	Intel Quad Core CPU 2.66 GHz
2	Operating System	Windows 7 Ultimate 64 bit
3	Memory	4GB
4	Ethernet Ports	Dual Gigabit
5	Hard Disk	Dual 500GB HDD in RAID 1 configuration
6	Connections	9PCIe slots, expandable
7	Outputs	Up to 40 High Resolution displays (1900x1200)
8	Inputs	Up to 32 DVI/RGB inputs (1920x1200) resolution
9	Dimensions (WxDxH)	500mm x 177mmx439mm
10	Weight	26 kgs per chassis without expansion modules
11	Operating Voltage	100-240 VAC, 50-60Hz
12	Operating Temperature	0°-35°C
13	Operating Humidity	5-85% non condensing
14	Power Supply	Redundant Hot Swappable
15	Power Consumption	500 W

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16	Form Factor/ Mounting	4U rack mount
17	Safety	IEC-60950-1, UL 60950-1 and CSA C22.2 No.

9 Technical data

9.7.2 MVL-x15 DDC files, SXGA+ (1400x1050)

Best for: PWS / NPG controller with NVidia graphics card; s: single link, d: dual link

	29.97Hz (NTSC)	59.94Hz (NTSC)	25.0Hz (PAL)	50.0Hz (PAL)
1x1	NA	1400_1050_5994 (s)	NA	1400_1050_5000 (s)
1x2	1400_2100_2997 (s)	1400_2100_5994 (d)	1400_2100_2500 (s)	1400_2100_5000 (d)
1x3	1400_3150_2997 (s)	1400_3150_5994 (d)	1400_3150_2500 (s)	1400_3150_5000 (d)
2x1	2800_1050_2997 (s)	2800_1050_5994 (d)	NA	2800_1050_5000 (s)
2x2	2800_2100_2997 (d)	NA	2800_2100_2500 (s)	2800_2100_5000 (d)
2x3	2800_3150_2997 (d)	NA	2800_3150_2500 (d)	NA

Best for: TransForm A controller with AGX graphics card, single link only!

	30.5Hz (NTSC)	60.5Hz (NTSC)	25.5Hz (PAL)	50.5Hz (PAL)
1x1	NA	1400_1050_6050 (s)	NA	1400_1050_5050 (s)
1x2	1400_2100_3050 (s)	NA	1400_2100_2550 (s)	NA
1x3	1400_3150_3050 (s)	NA	1400_3150_2550 (s)	NA
2x1	2800_1050_3050 (s)	NA	NA	2800_1050_5050 (s)
2x2	NA	NA	2800_2100_2550 (s)	NA
2x3	NA	NA	NA	NA



JAIPUR METRO

# JAIPUR METRO RAIL CORPORATION LIMITED

(A Govt. of Rajasthan undertaking)

Directorate of Operations & Systems

3<sup>rd</sup> Floor, Administrative Building, Bhriugu Path, Mansarovar, Jaipur- 302020

Tel. No. 0141-2822106 (O), E-mail – edst@jaipurmetrorail.in



## 9.5 Operating conditions

characteristic  
Humidity  
Temperature )

specification  
Up to 100%, non-condensing  
10-40 °C | 50-105 °F

## 9.6 Interfaces

### 9.6.1 Communication

RJ45 interface:

Pin	Signal Assignment
1	TD+
2	TD-
3	RD+
4	

Pin	Signal Assignment
5	
6	RD
7	
8	

### 9.6.2 Data

2xDVI IN with loop through to DVI OUT, dual link DVI-D

Dual link DVI-D interface:



Pin	Signal Assignment
1	TMDS Data 2-
2	TMDS Data 2+
3	TMDS Data2/4 Shield
4	TMDS Data4-
5	TMDS Data4+
6	DDC Clock [SCL]
7	DDC Data [SDA]
8	-
9	TMDS Data 1-
10	TMDS Data 1+
11	TMDS Data1/3 Shield
12	TMDS Data3-

Pin	Signal Assignment
13	TMDS Data3+
14	(+5 V Power)
15	Ground (+5, Analog /V Sync)
16	Hot Plug Detect
17	TMDS Data 0-
18	TMDS Data 0+
19	TMDS Data0/5 Shield
20	TMDS Data5-
21	TMDS Data5+
22	TMDS Clock Shield
23	TMDS Clock +
24	TMDS Clock -

Barco - MVL Series - R59119100 user manual - Revision 00 - August 2012



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*[Handwritten signature]*



### 9.7 Input timings

All input frame rates from 24Hz to 62Hz (for all resolutions) and up to 75Hz (for resolutions up to SXGA+) are supported

Pixel clock	Flexible, max 165 MHz in single link mode, 320MHz in dual link mode
Genlock (all resolutions)	in v. sync range 49Hz to 61.6Hz in v. sync range 24.5Hz to 30.5 Hz (frequency doubling)
minimized frame delay mode	1 frame in minimized frame delay mode (restrictions apply: only for native SXGA+ signal, v. sync in range 49Hz to 62Hz, video scaling is off, no cropping) +4 frames in normal mode

### 9.7.1 Supported DVI input resolutions

mode	Hor	vert	frame rate	scaling condition	max # projectors in loop
VGA	640	480	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
SVGA	800	600	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
XGA	1024	768	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
720p	1280	720	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
WXGA	1368	768	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
WXGA2	1366	768	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
WXGA3	1280	768	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
WXGA+	1440	900	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
SXGA	1280	1024	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
WSXGA	1600	900	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
SXGA+	1400	1050	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
WSXGA+	1680	1050	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
UXGA	1600	1200	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
1080p	1920	1080	60	1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 1x3, 2x3, 3x3	10
1x2 HDTV	1920	1160	60	1x2	10
1x2 HDTV (30)	1920	1160	30	1x2	10
2x1 HDTV	3840	1080	60	2x1	10
2x1 HDTV (30)	3840	1080	30	2x1	10
2x2 HDTV (30)	3840	2160	30	2x2	10






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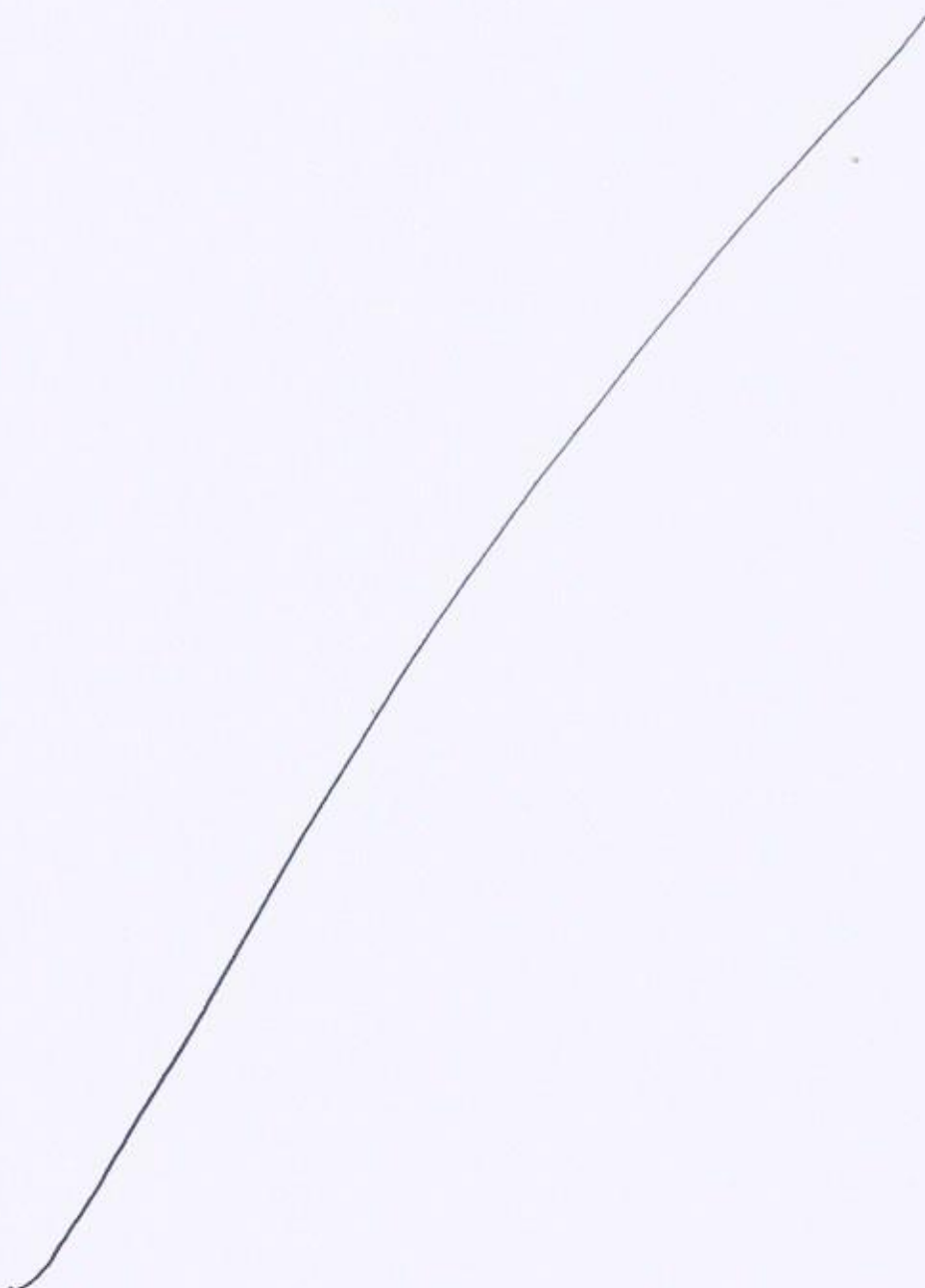
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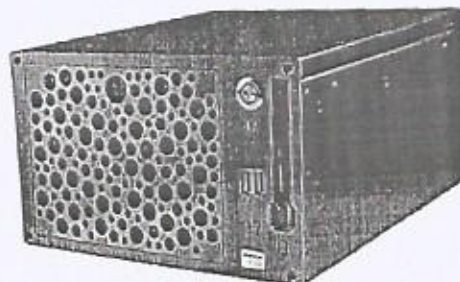
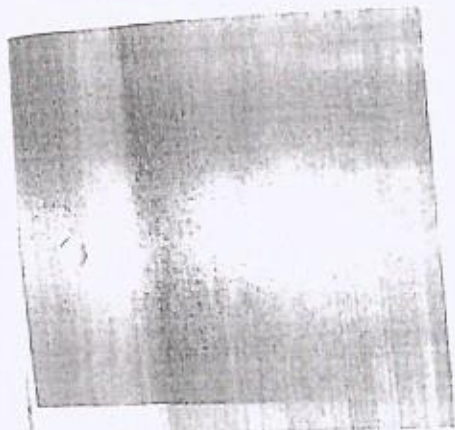
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# TransForm NDN-210

Networked Visualization Output Node



Barco's TransForm N Display Node is a powerful PC-based network graphics processor. It is used in networked visualization environments and can display encoded streams coming from a Gbit Ethernet/IP network. H-264, MPEG-4, MPEG-2, MJPEG, V2D and ProServer represent just the top of a long list of supported codecs and streaming formats. Furthermore, the display controller also has a high-end graphics card to perform rendering operations as requested by clients in the network.

#### High density content – Large display walls

Output nodes can display high-density content and can drive up to sixteen displays. The unit supports multiple different types of displays including the whole range of Barco projectors. Multiple output nodes can be combined to show a composed synchronized picture on display walls of virtually unlimited size. Two models are available, covering flexibly the specific synchronization requirements.

#### Features:

- 4 outputs
- Up to 4K UHD resolution per output
- Universal IP video streaming decoding
- Most extensive list of supported codecs and formats
- Frame lock between multiple display nodes
- Redundant network interface
- Silent operation in a compact and flexible form factor
- Mature Barco quality, robust and reliable



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PRODUCT SPECIFICATIONS	TRANSFORM NDN-210
Memory	4 GB ✓
Disk drive	128 GB Solid-State Disk SSD ✓
Network	2x 10Gb/s LAN ✓
Graphics card	Professional high-performance NVIDIA Quadro-series graphic card
Processor	Intel(R) Core(TM) i7 Quad core processor 3.2GHz (4.0GHz max. Turbo frequency)
Output	4x Display Port 1.2 (supporting up to 4x 4K-UHD) 4x DVI-SI via included adapters (supporting up to 4x HD) 4x DVI-DL (on request)
Input	H.264, MPEG-2/4, MxPEG, MJPEG, V2D, H.263, VNC, Pro-Server (see supported codec list)
Form factor	3U to 19" Rackmount housing
Dimensions	133mm x 220mm x 300mm   5.24in x 8.66in x 11.81in
Power supply	100-240V, 5-3A, 50/60Hz
Power consumption	Typ. 124W   max. 270W
Temperature range	0° -40°C   32° -104°F
Humidity	Max. 80% (noncondensing)
Noise Level	Max. 36dbA (measured at 1m/32.8ft distance at 22°/72°)
Compliance	CE, CB, IEC 60950, EMI, FCC Class A Regulatory Model: IS NCP-210
Available models	NDN-210 LITE   Standard mode for most applications NDN-210 PRO   Pro model for perfect sync across up to 30 NDN-210 Pro display nodes
Order Information	R9821000B   NDN-210 PRO Display Node (US) R9821000F   NDN-210 PRO Display Node (EU) R9821000G   NDN-210 PRO Display Node (UK) R9821000X   NDN-210 PRO Display Node (IC13/14) R9821005B   NDN-210 LITE Display Node (US) R9821005F   NDN-210 LITE Display Node (EU) R9821005G   NDN-210 LITE Display Node (UK) R9821005K   NDN-210 LITE Display Node (IC13/14) R9821055   Rackmount Kit for 2x NDN-210 R766042   Pedestal mount kit for NDN-210

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## 9 Technical data

### 9.1 Optical properties

characteristic	specification
Luminous flux (typ.)	800lm
Luminance (typ.)	250 (cd/m <sup>2</sup> (60°) (high brightness mode)
Dynamic contrast	1200000:1
Brightness uniformity (typ.)	92% (ANSI 9points)
Color gamut	EBU
White point	6500K

### 9.2 Electronic power ratings

characteristic	specification
AC power supply	100-240V
Mains frequency	50-60Hz
Current	2.5A - 1.5A
Inrush current	50A@264V
Power consumption (max)	220W
Power consumption (typ, eco mode)	200W, 150W

### 9.3 Structure

characteristic	Specification 00"
Width	1220mm   48in
Height	915mm   36in
Depth	889mm   35in
Weight display module without screen, cooling unit, frontend box, projection engine	79kg   174lb
Weight pedestal 625mm	20kg   44.09lb
Weight pedestal 875mm	21.5kg   47.39lb
Weight pedestal 1020mm	22.5kg   49.6lb
Weight pedestal 1200mm	24kg   52.91lb
Weight pedestal 1500mm	26kg   57.32lb

### 9.4 Screen

Screen	Horizontal half gain angle	Vertical half gain angle
XMD screen	30°	16°



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**5. GRIEVANCE REDRESSAL DURING PROCUREMENT PROCESS**

The designation and address of the First Appellate Authority is Director (O & S), JAIPUR METRO RAIL CORPORATION, JAIPUR.

The designation and address of the Second Appellate Authority is MD, JAIPUR METRO RAIL CORPORATION, JAIPUR.

**(1) Filing an appeal**

If the Service provider is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued there under, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Provided that after the declaration of a Service provider as successful the appeal may be filed only by a Service provider who has participated in procurement proceedings:

Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Service provider whose Technical Bid is found to be acceptable.

- (2) The officer to whom an appeal is filed under Para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it within thirty days from the date of the appeal.
- (3) If the officer designated under Para (1) fails to dispose of the appeal filed within the period specified in Para (2), or if the Service provider or prospective service provider or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Service provider or prospective service provider or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in Para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

**(4) Appeal not to be in certain cases**

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- (a) determination of need of procurement;
- (b) provisions limiting participation of Service providers in the Bid process;

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(c) the decision of whether or not to enter into negotiations;

(d) cancellation of a procurement process;

(e) Applicability of the provisions of confidentiality.

(4) Form of Appeal

(a) An appeal under para (1) or (3) above shall be in the annexed Form along with as many copies as there are respondents in the appeal.

(b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.

(c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

**(5) Fee for filing appeal**

(a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.

(b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

**(6) Procedure for disposal of appeal**

(a) The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.

(b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,-

(i) Hear all the parties to appeal present before him; and

(ii) Peruse or inspect documents, relevant records or copies thereof relating to the matter.

(c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.

(d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

**Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012**

Appeal No .....of .....

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Before the ..... (First / Second Appellate Authority)

1. Particulars of appellant:

- (i) Name of the appellant:
- (ii) Official address, if any:
- (iii) Residential address:

2. Name and address of the respondent(s):

- (i)
- (ii)
- (iii)

3. Number and date of the order appealed against and name and designation of the officer / authority who passed the order (enclose copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:

5. Number of affidavits and documents enclosed with the appeal:

6. Grounds of appeal:

.....

.....(Supported by an affidavit)

7. Prayer:

.....

Place .....

Date .....

Signature

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6. FINANCIAL BID: -

BILL OF QUANTITY (BOQ)

S.No (A)	Work Description (B)	Rate (INR) (C)	GST % (D)	GST amount in INR (E)	Amount (INR) (F=C+E)
1.	Replacement of existing NGP-124 server, CMS IBM server with NDN 210 server, CMS DELL server respectively and their installation, commissioning, multicasting Redressal				
2.	Comprehensive Annual Maintenance Charges for Video wall system of Make Barco for 03 years as per para 4.2.4				
3.	Net Amount INR (without GST)				
4.	Total Amount INR(including GST)				
5.	Total Amount (IN Words):				

Note:

1. Rate quoted must be For basis for Mansarovar Depot inclusive for carrying out all activities as detailed in the scope of work and will be deemed to include all incidental charges, supervision, transport, contractor's profit and establishment/overheads, all risks and other obligations set out or implied in the contract, complete as required.
2. Rate quoted must be excluding GST which is being considered in BOQ separately. However rate of GST shall be as applicable on the date of billing.
3. No other charges shall be payable except value at Column [F].
4. Anything that would be required to complete the above scope of work and proper functioning of Video wall system of make Barco Electronics installed in JMRC will be borne by the bidder.

Signature of firm representative  
(With seal of firm)



GST No. - \_\_\_\_\_



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**7. Form A:****Format of Bank Guarantee for Performance Security**

This deed of Guarantee made this day of \_\_\_\_\_ between Bank of \_\_\_\_\_ (hereinafter called the "Bank") of the one part, and Jaipur Metro Rail Corporation Limited (hereinafter called "the Employer") of the other part.

Whereas Jaipur Metro Rail Corporation Limited has awarded the contract for: **"Single source bid for Initial Repair/Replacement and CAMC for Video Wall System", F.No.- F2(34)/JMRC/O&S/S&T/AMC-VIDEO WALL SYSTEM/2019-20/dated.....** (here in after called "the contract") to M/s \_\_\_\_\_ (here in after called "the Contractor").

AND WHEREAS the Contractor is bound by the said Contract to submit to the Employer a Performance Security for a total amount of Rs. \_\_\_\_\_ (Amount in figures and words).

Now we the Undersigned \_\_\_\_\_ (Name of the Bank) being fully authorized to sign and to incur obligations for and on behalf of and in the name of \_\_\_\_\_ (Full name of Bank), hereby declare that the said Bank will guarantee the Employer the full amount of Rs. \_\_\_\_\_ (Amount in figures and Words) as stated above.

After the Contractor has signed the aforementioned Contract with the Employer, the Bank is engaged to pay the Employer, any amount up to and inclusive of the aforementioned full amount upon written order from the Employer to indemnify the Employer for any liability of damage resulting from any defects or shortcomings of the Contractor or the debts he may have incurred to any parties involved in the Works under the Contract mentioned above, whether these defects or shortcomings or debts are actual or estimated or expected. The Bank will deliver the money required by the Employer immediately on demand without delay without reference to the Contractor and without the necessity of a previous notice or of judicial or administrative procedures and without it being necessary to prove to the Bank the liability or damages resulting from any defects or shortcomings or debts of the Contractor. The Bank shall pay to the Employer any money so demanded notwithstanding any dispute/disputes raised by the Contractor in any suit or proceedings pending before any Court, Tribunal or Arbitrator/s relating thereto and the liability under this guarantee shall be absolute and unequivocal.

This Guarantee is valid for a period of \_\_\_\_\_ days from the date of signing. (The initial period for which this Guarantee will be valid must be for at least 41 months from the date of signing.).

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At any time during the period in which this Guarantee is still valid, if the Employer agrees to grant a time extension to the Contractor or if the Contractor fails to complete the Works within the time of completion as stated in the Contract, or fails to discharge himself of the liability or damages or debts as stated under above para, it is understood that the Bank will extend this Guarantee under the same conditions for the required time on demand by the Employer and at the cost of the Contractor

The Guarantee hereinbefore contained shall not be affected by any change in the Constitution of the Bank or of the Contractor.

The neglect or forbearance of the Employer in enforcement of payment of any moneys, the payment whereof is intended to be hereby secured or the giving of time by the Employer for the payment hereof shall in no way relieve the bank of their liability under this deed.

The expressions "the Employer", "the Bank" and "the Contractor" hereinbefore used shall include their respective successors and assigns.

In witness whereof I/We of the bank have signed and sealed this guarantee on the \_\_\_\_\_ day of \_\_\_\_\_ (Month) 2019 being herewith duly authorized.

For \_\_\_\_\_ and \_\_\_\_\_ on \_\_\_\_\_ behalf \_\_\_\_\_ of  
the \_\_\_\_\_ Bank.

Signature \_\_\_\_\_ of \_\_\_\_\_ authorized \_\_\_\_\_ Bank \_\_\_\_\_ official

Name: \_\_\_\_\_

Designation : \_\_\_\_\_

I.D. No. : \_\_\_\_\_

Stamp/Seal of the Bank: \_\_\_\_\_

Signed, sealed and delivered for and on behalf of the Bank by the above named \_\_\_\_\_

In the presence of:

Witness 1.

Signature \_\_\_\_\_

Name \_\_\_\_\_

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Address .....

Witness 2.

Signature .....

Name .....

Address .....

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FORM B:- CONTRACT AGREEMENT

CONTRACT No. F2(34)/JMRC/O&S/S&T/AMC-VIDEO WALL SYSTEM/2019-20/

THIS AGREEMENT made on the \_\_\_\_ day of \_\_\_\_\_ 2019 between Jaipur Metro Rail Corporation Limited, having their registered office at Khanij Bhawan, Udyog Bhawan Premises, Tilak Marg, C-Scheme, Jaipur-302005 hereinafter "JMRC" which expression shall, and M/s Barco Electronics System Pvt. Ltd, A-72, Gate No-2, Sector 64, Noida-201301, Uttar Pradesh, India, hereinafter "Contractor",

WHEREAS, the Contractor has offered a proposal for "Single source bid for Initial Repair/Replacement and CAMC for Video Wall System" and agrees to perform such supply, work and services under the terms and conditions set forth in this Contract Agreement.

AND

WHEREAS, JMRC has issued a Letter of Acceptance for "Single source bid for Initial Repair/Replacement and CAMC for Video Wall System".

Both parties hereby enter into a Contract Agreement and agree to abide by the terms and conditions as follows:

Clause 1

JMRC agrees to hire and the Contractor agrees to be hired for Contract for "Single source bid for Initial Repair/Replacement and CAMC for Video Wall System", under the terms and conditions specified in this Contract Agreement and the other Contract Documents attached hereto as follows:

The RFP document no. F2(34)/JMRC/O&S/S&T/AMC-VIDEO WALL SYSTEM/2019-20/ dated 07/06/2019

Letter of Acceptance No. F2(34)/JMRC/O&S/S&T/AMC-VIDEO WALL SYSTEM/2019-20/ dated \_\_\_\_;

Performance Security amounting to (...10% of contract value) .... in the form of Bank Draft/Banker's Cheque or Bank Guarantee No. \_\_\_\_\_ dated \_\_\_\_\_.

Any other documents forming part of the Contract.

All of the foregoing documents, together with this Contract Agreement, are referred to herein as the Contract Documents. Also incorporated into these Contract Documents, and made part hereof, are all codes, standard specifications, and similar requirements that are referred to therein. In the event

of a conflict, ambiguity or discrepancy between the contents of the Contract Documents, the contractor will seek clarification from the JMRC, whose decision shall be final.

Clause 2 : Obligation of the Contractor

The Contractor agrees, subject to the terms and conditions of the Contract Documents to perform efficiently and faithfully all of the supply, work and services for Contract of **"Single source bid for Initial Repair/Replacement and CAMC for Video Wall System"** and in carrying out all duties and obligations imposed by the Contract Documents. The Contractor agrees to pay the amount and penalty specified, if any, to the JMRC at the rates and terms and in the manner set forth in the Contract Documents.

Clause 3: Obligation of the JMRC

The JMRC agrees, subject to the terms and conditions of the Contract Documents, to provide unobstructed access wherever it is required for providing the supply, work and services as per the Scope of Work and terms and conditions in the manner set forth in the Contract Documents.

Clause 4 : Contract Price

The JMRC / Contractor (as applicable) agrees to pay for the supply, work and services under the Scope of Work and terms and conditions in the manner set forth in the Contract Documents and the Contractor / JMRC (as applicable) agrees to accept the said sums mentioned in the Contract Documents, as part of his obligations, responsibilities and liabilities under and according to the provisions and obligations imposed on him by the Contract.

Clause 5: Notices

All notices called for by the terms of the Contract Documents shall be in writing in the English language and shall be delivered by hand or by registered mail, acknowledgement due, to the parties' addresses given below. All notices shall be deemed to be duly made when received by the party to whom it is addressed at the following addresses or such other addresses as such party may subsequently notify to the other:

JMRC:	Contractor:
ED/S&T/JMRC, Jaipur Metro Rail Corporation Limited, Room No. 314, 3rd Floor, Admin Building, Mansarovar Depot, Bhriugu Path Jaipur-302020	M/s Barco Electronics System Pvt. Ltd (BESL), A-72, Gate No-2, Sector 64, Noida-201301 Utter Pradesh, India

Clause 6: Obligation of Tax Law







JAIPUR METRO

# JAIPUR METRO RAIL CORPORATION LIMITED

(A Govt. of Rajasthan undertaking)

Directorate of Operations & Systems

3<sup>rd</sup> Floor, Administrative Building, Bhriugu Path, Mansarovar, Jaipur- 302020

Tel. No. 0141-2822106 (O), E-mail – edst@jaipurmetrorail.in



Both the parties shall ensure full compliance with tax laws of India with regard to this Contract and shall be responsible for the same. Either party shall keep the other party fully indemnified against his liability of tax, interest, penalty, etc. in respect thereof which may arise.

## Clause 7 : Integration

The JMRC and the Contractor agree that this Contract Agreement, together with the other Contract Documents, expresses all of the agreements, understandings, promises, and covenants of the parties, and that integrates, combines, and supersedes all prior and contemporaneous negotiations, understandings, and agreements, whether written or oral and that no modification or alteration of the Contract Documents shall be valid or binding on either party, unless expressed in writing and executed with the same formality as this Contract Agreement, except as may otherwise be specifically provided in the Contract Documents.

## Clause 8 : Governing Law

This Contract is enforceable and construed under the laws of the Republic of India.

## Clause 9 Language

This Contract Agreement and the other Contract Documents are made in the English language.

## Clause 10 Jurisdiction of court

All claims, matters and disputes are subject to the exclusive jurisdiction of the Competent Courts in Jaipur only.

In WITNESS THEREOF, The parties have caused this Contract to be signed in their respective names as of the day and year first written above.

The JMRC

The Contractor

Jaipur Metro Rail Corporation Limited

M/s Barco Electronics System Pvt. Ltd,

ED/S&T

WITNESS

WITNESS

1.

2.

Registered office: Admin Building, Metro Depot, Bhriugu Path, Mansarovar, Jaipur - 302020  
CIN: U60221RJ2010SGC030630

Website: <http://transport.rajasthan.gov.in/jmrc>

28/28

