

SPEED POST/Email

**PRASAR BHARATI  
(INDIA'S PUBLIC SERVICE BROADCASTER)  
DIRECTORATE GENERAL: DOORDARSHAN  
DOORDARSHAN BHAVAN  
COPERNICUS MARG, NEW DELHI 110 001**

Schedule to A/T No. 14(3)2019-20E1 (P) TV/1866

Dated: 23/10/2020

**SITC of DD DTH Expansion by Up-gradation of Existing Two Compression Chain & Monitoring System at DTH Earth Station, TODAPUR, Delhi**

1. **Name and address of the Contractor** : M/s Falcon Technologies Pvt. Ltd.,  
102, Empire Apartments, 98 M.G. Road,  
Sultanpur ,  
New Delhi-110030.
2. **Name of the Purchaser** : The Prasar Bharati (India's Public Service Broadcaster),  
DG: Doordarshan
3. **Contractor's tender No. & Date** : Your bid for e-tender no. 14(3)2019-20E1 (P) TV dated  
16/04/2019 & your letter dated 28/09/2020.
4. **A. Sanction Number** : Sanction No. 04/18 EVI/TV dated 01.03.2019: Annexure  
- V (Item 4,5,6,7)
- B. Scheme** : " Extension of the Scheme of PB ( AIR & DD)- 12th  
Plan Broadcasting Infrastructure and Network  
Development" for 3 Years(2017-2020)
- C. Head of Accounts** : Major Head '2221' – Broadcasting; 80-General (Sub  
Major Head); 80.102 Grants to Prasar Bharati; 01-Prasar  
Bharati; 01.00.35 – Grants for Creation of Capital Assets  
(Plan)
5. **Condition of Contract** : As contained in Form DGS&D-68(R) and DGS&D 36 and  
instructions to tenderer's contained in form DGS&D-230  
in booklet DGS&D-229 (as amended up to date) as  
applicable DG:DD tender terms & conditions and special  
conditions contained in schedule to the T.E. will be  
applicable.
6. **Security Deposit** : In terms of Clause 7 of the general conditions of the  
contract DGS&D (Revised) under which you have  
tendered, you are required to deposit 5% of the contract  
value i.e. **Rs. 62,46,888/- (Rupees Sixty Two Lakh  
Forty Six Thousand Eight Hundred Eighty Eight  
Only)** within 30 days as Security Deposit which may be  
furnished in the form of **Performance bond/FDR** in  
favour of PBBCI DG: Doordarshan, New Delhi from **any  
scheduled commercial banks** in the prescribed form  
valid for 62 months beyond DP (indicated in clause 7). It  
is a condition in this contract that you shall deposit the  
security. In case you fail to deposit the required security  
by the date prescribed above, you will have committed  
breach of contract entitling the purchaser to cancel the  
contract or to enforce the recovery of the amount of  
security deposit prescribe with or without enforcing other



- rights under the contract resulting from breach thereof.
7. **Date of Delivery** : **Five Months** from the date of issue of purchase order(A/T) i.e. **22/03/2021**.
8. **Terms of Delivery** : FOR Destination
9. **Dispatch Instructions** : The firm is responsible for the safe delivery of Stores at destinations, duly insured up to Destination.
10. **Mode of Dispatch** : To be dispatched by Road/Rail/Air, freight prepaid up to destination.
- 11 a. **Consignee** : DTH Earth Station Todapur, New Delhi.
- b. **Location** : DTH Earth Station Todapur, New Delhi.
- c. **GSTN no. of Doordarshan** : 07AAAJP0288R1ZH
12. **Packing & Marking** : Packing and Marking as laid down in the relevant clause 12 of the General conditions of the contract DGS&D-68 (Revised).
13. **Particular Governing Supply**
- a. **Manufacturer's name** : **As mentioned under col. Make/ Model No. of clause 16 of A/T (Description of stores ordered)**
- b. **Price preference to ISI with Percentage** : N/A
- c. **Method of Purchase** : Global Tender Enquiry
- d. **Advance Sample** : Not Required.
- e. **Specification No.** : SATD/DTH Expansion\_Compression Upgradation/March 2019 dated 25/03/2019. Specs amendment & clarification dated 21/05/2019 and specs Amendment dated 07/06/2019.
14. **Inspection** :
- a. **Inspection Authority** : DG: Doordarshan.
- b. **Inspection Officer** : Authorized representative of DG:DD
- c. **Terms of Inspection** :
- i. All the equipment to be supplied against this A/T (Purchase Order) for this tender shall be subjected to pre-installation inspection at Doordarshan by Doordarshan officers appointed by Doordarshan Directorate. The pre-installation inspection shall be based on manufacturers factory test results and physical verification of make and model of equipment. The successful bidder should produce the factory test reports of the offered equipment to facilitate inspection.
  - ii. Post installation inspection and commissioning of system will be carried by a team of Doordarshan officers authorised by Doordarshan Directorate and based on approved Acceptance Test Procedure (ATP)
  - iii. A draft copy of ATP (Acceptance Test Procedure) must be submitted by the bidder one month in advance of the proposed date of inspection of installed



system to Doordarshan Directorate for approval. ATP should describe the standard test procedure of individual equipment and overall system. The Factory Test Report will not be treated as ATP.

iv. The approved ATP with or without changes shall be sent back to the successful bidder to be used for inspection and commissioning of the installed system by DD Engineer(s) at site. All the equipment required for the inspection as per the approved ATP are to be provided by the successful bidder.

v. The SITC certificate will be issued by the team of officers appointed at S.N. 14(c) (ii) above.

**15. Special Instruction**

- |                                       |   |   |
|---------------------------------------|---|---|
| a. CGST                               | : |   |
| b. SGST / UTGST                       | : | GST @5%, @12%, @18% & @28%.   |
| c. IGST                               | : |   |
| d. Cess or any other applicable taxes | : |   |
| e. Payment                            |   |   |
| (i) Paying Authority                  | : | Pay & Accounts Officer (Doordarshan),<br>Akashwani Bhawan, Parliament Street, New Delhi-110011. |
| (ii) Bill Processing Authority        | : | Zonal Head (Broadcast) [NZ], AIR & TV, Jamnagar House, Shahjahan Road, New Delhi - 110011.      |

**f. Mode of payment:-**

You will submit your consignee wise Tax invoices along with inspection note to concerned consignee as per AT clause 11(a). Such invoices along with provisional consignee receipt certificate will be processed and passed on to the respective Zones & PAO's for pre check and payment.

If the supplier registered under the GST regime as normal tax payer and does not show the detail(s) of invoice(s) raised on Doordarshan in his GSTR-1 for that month, Doordarshan may claim input tax credit by making entries of such invoice(s) in GSTR-2 under intimation to the supplier with a request to upload the detail(s) of these invoice(s) in his GSTR-1. In case no entry(ies) is reflected in next month GSTR-1 filed by the supplier due to which ITC claimed earlier is disallowed, Doordarshan will be free to recover the amount of GST so paid to supplier along with penalty @10% plus applicable GST there on from the subsequent payment or from PBG given by the supplier without giving any notice.

**g. Terms of Payment:**

80% of payment of equipment shall be paid after Inspection & receipt of equipment/ material as recorded in Provisional Consignee receipt certificate and submission of Security Deposit as certified by DG: DD. The balance 20% cost of equipment/ materials along with 100% cost of installation will be payable after satisfactory Installation, Testing and Commissioning as certified by consignee.

In case of over payment or wrong payment, if any, made to the contractor due to the wrong interpretation of the provision of the contract, or otherwise, such excess payment will be deducted in subsequent bills of the contractor or from the bills under any other contracts of the organization or from deposits of any contracts available with this organization.

*AMK*

**h. Transit Insurance:**

The purchaser will not pay separately for transit insurance and the supplier will be responsible for arrival of the entire stores contracted for in good condition at destination. The consignee will, as soon as possible but not later than 30 days of receipt of stores, notify to the contractor for any loss/damage to the stores that may have occurred during transit.

**i. Other Statutory/ Local Tax etc.**

In case, any Municipality insists on payment of taxes or duty, the same should be paid by the contractor to avoid delay in the supplies and possible demurrage charge. The receipt obtained for such payment should be forwarded to **Bill Processing Authority** without delay, for processing of payment. The **Bill Processing Authority** will check the claims with reference to the vouchers and counter sign the bills to authorise the payment.

**j. Guarantee/ Warranty:**

The following guarantee/ warranty shall form part of this contract: -

The contractor/seller hereby declares that the good, stores/articles sold/supplied to the purchaser under this contract shall be of the best quality and workmanship and new in all respect and shall be strictly in accordance with the specification and particulars contained/ mentioned in contract. The contractor / seller hereby guarantees that the said goods/stores/articles would continue to conform to the description and quality aforesaid for a period of **60 months** from the date of commissioning of the said goods/stores/ articles to the purchaser notwithstanding the fact that the purchaser (Inspector) may have inspected and/or approved the said goods/stores/articles if during the aforesaid period of **60 months** the said goods/stores/articles be discovered not to conform to the description and quality aforesaid or not giving satisfactory performance or have deteriorated and the decision of the purchaser in that behalf shall be final and binding on the Contractor /Seller and the purchaser shall be entitled to call upon the contractor/seller to rectify the goods/stores/articles or such portion thereof as is found to be defective by the purchaser within a reasonable period, or such specified period as may be allowed by the purchaser in his discretion on an application made thereof by the contractor/ Seller, and in such an event, the above mentioned guarantee/ warranty period shall apply to the goods/stores/articles rectified from the date of rectification thereof, otherwise the contractor/seller shall pay to the purchaser such compensation as may arise by reasons of the breach of the warranty herein contained.

- (i) All the offered equipment shall be guaranteed against any manufacturing defect for a period of **5 (Five) years** from the date of Commissioning.
- (ii) Any part failing during the guarantee period shall be repaired/replaced free of charge by the successful bidder at site. For repairing of any defective equipment during guarantee period, the defective module or equipment requiring repairs will be handed over to local office/local authorized representative/ dealer who will arrange repairs locally at site or send/ export the defective modules to OEM Factory and re-import/ send back after repairs.
- (iii) It is responsibility of local office/ Authorized representative/ dealer of the bidder to arrange the repair/ replacement of faulty items for Doordarshan i.e. no transportation charges would be paid by DD for transporting the defective/ repaired items, if required to be removed from site, during the guarantee period.
- (iv) Guarantee period is to be extended corresponding to the outage period if the failure rectification takes more than 15 days time.
- (v) If bidder is not OEM, then the guarantee/ warrantee in respect of the equipment as mentioned in Clause 15 (j) (ii) shall be provided by the bidder through respective OEMs.

- (vi) Guarantee that they will supply spare parts, if and when required on agreed price. The agreed basis could be including but without any limitation and agreed discount on the published catalogue or an agreed percentage of profit on the landed cost.
- (vii) Guarantee to the effect that before going out of production for the spare parts they will give adequate advance notice to the purchaser of the equipment so that the latter may undertake the balance of the lifetime requirements.
- (viii) Guarantee to the effect that they will make available the blueprints of the drawings of the spares if any when required in connection with the main equipment.
- (ix) a) The guarantee includes all hardware, software and modules of the complete system.  
b) The firm will provide up gradation of all the offered software free of charge during the Warranty period.

**k. After Sales service:**

It is a condition of the contract that the contractor shall be responsible for after-sales-service for the repairs/ maintenance in respect of the equipment additional 2 (Two) Years, after the completion of Guarantee/Warranty period, shall also be provided by the OEM either directly or through their local agent.

**l. Correctness and completeness of stores:**

The stores will be completed in every respect with mountings fittings, fixtures and standard accessories, which are normally supplied even though not specifically mentioned in the specifications. The contractor shall not be eligible for payment in respect of such mountings fittings, fixtures and standard accessories, which are needed for safe operation of the equipment. The contractor shall be responsible for the completeness of the equipment and for efficient working of the same at site.

m. The period for making risk purchase shall be nine months instead of six months as provided in sub para clause 14 (7)(iii) of the General Conditions for the contract DGS&D-68(R).

n. **Repeat Order:** Purchaser reserves the right to place order up to 50% of the original quantity of any item(s) on the same terms and conditions stipulated in the original acceptance of tender during the validity of this tender or within six months of the original A/T whichever is later will be obligatory on the part of the supplier to execute repeat order(s) also.

o. **Failure and termination:** Liquidated damages to the extent of 1/2% (half percent) of the contract price of the whole unit per week for such delay or part thereof subject to maximum of 10% of the contract price of the whole unit will be deducted from the contract in the event of failure of SITC within the contractual delivery period. The termination of the contract shall be dealt as per terms & conditions of tender document.

**p. Mandatory disclosure of recipient (Doordarshan's) GSTIN on invoice:**

The supplier should quote the GSTIN of the concerned unit of Doordarshan, as mentioned in **CLAUSE 11(c)** of AT, on the face of the invoice and in GSTR-1 filed by the vendor. If the above GSTIN number is not quoted on the invoice, the amount equal to the extent of ITC amount will be deducted in the payment or will be deducted in subsequent bills of the contractor or from the bills under any other contracts of the organization or from deposits of any contract available with this organization.

In case any credit, refund or benefit is denied or delayed to Doordarshan due to non-compliance by the contractor (e.g: non payment of GST on supplies, non-disclosure or incorrect disclosure in GST returns), the contractor would reimburse an amount equivalent to the loss including, but not limited to tax loss, interest and penalty to Prasar Bharati.

q. Please return acknowledgement of contract duly signed immediately.

r. This issue with the approval of 163th Prasar Bharati Board Meeting dated 15/10/2020 and concurrence of FAS vide diary no. E-16/2020-21/IFD dated 22.10.2020.

**16. Description of Stores Ordered:**

Sr. No.	Description	Make	Model No.	HSN Code/ SAC Code	Total price without tax.	GST @ 5%, 12%, 18% & 28%	Total Price With GST
1	AS PER ATTACHED ANNEXURE "A" of A/T				Rs. 10,62,26,982/-	Rs. 1,87,10,784/-	Rs. 12,49,37,766/-

(Say Rs. Twelve Crore Forty Nine Lakh Thirty Seven Thousand Seven Hundred Sixty Six only/-)

*Umesh K. Sikri*  
(U.K.Sikri) 23/10/20  
Dy. Director (Engg.)  
For DG: Doordarshan

**Copy To :**

1. The Addl. Director General [E] Zonal Head (Broadcast) (NZ), {Kind Attention Sh. Aftab Ahmed, DDG(E)}, AIR & TV, Jamnagar House, Shahjahan Road, New Delhi - 110011.
2. The Addl. Director General [E] Zonal Head (Broadcast) (NZ), AIR & TV, Jamnagar House, Shahjahan Road, New Delhi - 110011.
3. The Addl. Director General (Budget & Accounts), Prasar Bharati Secretariat, Prasar Bharati House, Tower-C, Mandi House Complex, Copernicus Marg, New Delhi - 110001.
4. Pay & Accounts Officer (Doordarshan), Akashwani Bhawan, Parliament Street, New Delhi-110001
5. The Sales Tax Commissioner, Govt. of India, Vyapar Bhawan, IP Estate, New Delhi-110002.
6. The DCIT, ADMIN, I.P.Estate, C.R.Building, New Delhi-110002.
7. DDG(E), DTH, Todapur, Delhi.

**Copy for kind information to:-**

1. PS to DG
2. PS to E-in-C (BO)
3. ADG(F), DG: DD
4. ADG(OKS)/(AK), DG: DD
5. DDG(E)(MG)/(RKV)/(AMG), DG: DD
6. DE/ DDE(AS)/(KKR)/(BS)/(PS)/(UKS)/(PK)/(SK), DG: DD
7. The Ledger Clerk.
8. Hindi section for Hindi Version.
9. ADE/AE/EA (AK)/(AKS)/(RG)/(CRS)/(MSR), DG: DD
10. AE (PKS) for uploading on Tender Wizard.
11. DDG(IT) for uploading on DD portal.

*Atosh Kumar*  
(Atosh Kumar)  
Assist. Director(Engg.)  
For DG: Doordarshan

**Annexure-A**

S.No.	Description of items offered by bidder	Total Qty/Units (Nos./Sets/Lots/ Jobs)	Make Offered	Model Offered	HSN Code	Unit Price In INR	Total Price without Tax in INR ( Inclusive of all incidental Charges	GST @5%, 12%, 18% & 28%	Total GST in INR	Total Price With GST in INR.
1	<b>A. INPUT AND BASEBAND SYSTEM</b>		Altrene							
2	1. Professional IRD consisting of									
3	a. Professional IRDs with L-band inputs of DVB-S & DVB S2, DVB-ASI & IP input compliance decoder and DVB-ASI, HD-SDI, AES/EBU, HD-SDI embedded audio, SD-SDI Embedded audio, one downconverted SD-SDI to HD-SDI, Dolby digital (AC-3) 5.1 audio and Dolby digital plus 5.1 Audio (E-AC-3) output, MPEG-2 TS over IP output with multi services filtering facility and having 4:2:0 & 4:2:2 compliant for MPEG-2, H.264/ MPEG-4-AVC and 4:2:0 compliant for H.265/ HEVC decoding and common interface slot hardware, BISS mode-1 & BISS-E Compliant) as per DO specs consisting of: DR5000JF-CI-HD-HEVC12-Universal Contribution Decoder 6DO&HD, MPEG-2(4:2:0 & 4:2:2)/MPEG-4 (4:2:0 & 4:2:2, 8 & 10-96)/HEVC (4:2:0 & 4:2:2, 8 & 10/12-bit) - 16 Audio mono channels on SDI or 8 AES digital audio, audio pass-through, 2 IP, 2ASI, 4 DVB-S/2S/2X inputs, 3x3G-SDI & 2 ASI outputs - 1RU 19" BISS CHIE - ProfMPEG FEC - UP to 4 DDODD+ decoding - Full option package included (DR5000JF-CI-HD-HEVC12) - DVB-CI interface two CAM slots included - Dual PSU - Dual Power Plug - DR5000-LC-DLB-FULL-Software license - Dolby Digital (AC3), Dolby Digital Plus (AC3+) Audio decoding support up to 4 audio tracks (mono, stereo or 5.1). \$	36	Nos	Altrene	DR5000	235271.00	8469766	18%	1524556.08	9994312.08
4	b. Low loss RF cable as per site requirement (20 meters per signal i.e. 20x 68-1360 mtrs (min.) to be connected from old L Band Router to new IRD Racks as per DRG No.1 ( with matching "F" type connector with gold plated pin of Canare ). \$	1	Lot	Canare	L-7CFB	370584.00	370584	18%	86705.12	437289.12
5	c.HD-SDI Video cables with matching connectors as per site requirement (DRG No.1) between the HD-SDI output port of all IRDs (New & old IRDs) to HD-SDI Patch panel. Each of Canare make HD-SDI Video cables with matching connectors model L2.5 CHD. All the L2.5 CHD cable is provided with BNC Connector to meet the DO specification. \$	1	Lot	Canare	L-2.5 CHD	13145.00	13145	18%	2366.10	15511.1
6	d.HD -SDI Video cables with matching connectors as per site requirement (DRG No. 1 & 3) between the ASI output port of all IRDs (new and old IRDs) to HD -SDI patch panel for Monitoring. Each of Canare make HD-SDI Video cables with matching connectors model L2.5 CHD. All the L2.5 CHD cable is provided with BNC Connector to meet the DO specification. \$	1	Lot	Canare	L-2.5 CHD	13145.00	13145	18%	2366.10	15511.1
7	<b>2.IP Data Switches and Network Switches consisting of:</b>									
8	1-(1+1) IP Data Switch 48 port with inbuilt dual power supply unit and rack mounting kit. (2nos per set) as per DO specs consisting of-WS-C3850-48T-E 2-Cisco Catalyst 3850 48 Port Data IP Services-CON-SNCA-WSC388TE SNTC 8XTXNCD MKT TRL 3-Cisco Catalyst 3850 4 x 1GE Network Module- C3850-NM-4-1G 4-India AC Type A Power Cable-CAB-TA-IN 5-No Stack Cable Selected- C3850-STACK-NONE 6-No Stack Power Cable Selected- C3850-SPWR-NONE 7-350W AC Config 1 Power Supply- PWR-C1-350WAC 8-C3850-48 LAN Base to IP Services E- Delivery License-C3850-48-L-E 9-DNA SUBSCRIPTION OPTOUT- C3850-DNA-OPTOUT 10-Config 1 SecondaryPower Supply-PWR-C1-350WAC/2 350W AC UNIVERSAL-S3850UKB-168 11-LX0LH SFP transceiver module, MMF/SMF, 1310nm, DOM, GLC-LH-SMD= 1000BASE	2	Sets	Cisco	WS-C3850-48T-E	2054694.00	4129388	18%	743289.84	4872677.84
9	b. 1- IP Network switch 48 port with inbuilt dual power supply unit with rack mounting kit, as per DO specs consisting of-WS-C2960-48TC-S 2- Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Lite-WS-C2960-48TC-S 3- MKT TRL Catalyst 2960 Plus 48 10/100 + 2 T/SFP- CON-SNCA WSC2964S SNTC 8XTXNCD 4- Power Cord Inds, Right Angle -CAB-IND-RA 5- SFP transceiver module, MMF/SMF, 1310nm, DOM, GLC-LH-SMD= 1000BASE-LX/LH. \$	2	Sets	Cisco	WS-C2960-48TC-S	114115.00	228230	18%	41081.40	269311.4
10	c.CAT-6 Cable with connector as per site requirement and drawing no 1 (Min 10x3 x34=1020 meter per sec)	2	Sets	Canare	RJ45-4P+	35762.00	71524	18%	12874.32	84396.32

*Atkinson*

s.No.	Description of items offered by bidder	Total Qty/Units (Nos./Sets/ Lots/ Jobs)	Make Offered	Model Offered	HSN Code	Unit Price in INR	Total Price without Tax in INR (inclusive of all incidental Charges)	GST @5%, 12%, 18% & 28%	Total GST in INR	Total Price With GST in INR.
11	3. Essential items / works (if any) to complete the installation of input and base band system (different OEM/FALCON MAKE Essential items / works (if any) to complete the installation). \$	0	Falcon/ Alerne	Falcon/Alerne	SAC995461	Included		18%		
12	4. Installation, testing and System Integration	1	Falcon/ Alerne	Falcon/Alerne	SAC995461	Included		18%		
13	B. Compression System									
14	f. 64x64 SD & HD-SDI router wired for all input and output as per DD specs consisting of :		Grassvalley \$	VEGA 400 series \$						
15	a. Base unit fully wired for 64x 64 Input and Output as per DD specs consisting of: Vega 400 Frame. Includes 4RU chassis, PSU, Controller, crosspoint, and cooling fans. Vega 12-Port SDI (IO Rear Module, HD BNC (1 slot), Vega rear blanking panel (1 slot), and 4RU dual redundant system controller configuration (VG-MF-400), FGAFP VGRM12HSDI (VG-RM12H-SDI), FGAFP VGRMBP (VG-RMBP), NV965 NV9000 \$	2	Grassvalley	FGAFP VGMF-400 (VG-MF-400), FGAFP VGRM12HSDI (VG-RM12H-SDI), FGAFP VGRMBP (VG-RMBP), NV965 NV9000	8517	2571438.00	5142876	18%	925717.68	6068653.68
16	b. Inbuilt hot swappable redundant cross point module for 64x64 as per DD specs consisting of: Vega crosspoint for VG-MF-400 & VG-MF192H 4U frame. (VG-XPT400)\$	2	Grassvalley	FGAFP VGXPT400 (VG-XPT400)	8517	Included		18%		
17	c. Inbuilt hot swappable redundant controller/ logic modules as per DD specs consisting of: Vega Controller & Buffer Card Set for 400, 700, 192H & 432H frames. (VG-CTLBUF)\$	2	Grassvalley	FGAFP VGCTLBUF (VG-CTLBUF)	8517	Included		18%		
18	d. Inbuilt hot swappable redundant power supply unit.as per DD specs consisting of: Vega Power Supply Unit for VG-MF 200, 400, 056H and 192H frames.(VG-PSU1) \$	2	Grassvalley	2 FGAFP VGPSU1 (VG-PSU1)	8517	Included		18%		
19	e. x-y control panel with cable as per DD specs Consisting of : XY Dial-up control panel, Route to any destination from any source using mnemonic dial up. (6026776) 6026776 \$	2	Grassvalley	FGAEK 6026776X (6026776) 6026776	8517	Included		18%		
20	f. Single Bus remote control panel with cable as per DD specs consisting of: 78-Key LED High Density Button Control Panel - Blue.(7028000RCSB) \$	2	Grassvalley	FGAEK 7028000RCSB (7028000RCSB)	8517	Included		18%		
21	g. HD-SDI Patch Panel and Patch cord consist of :									
22	a.HD-SDI patch panel, 75 Ohm Impedance for all input and output ports of SDI Router as per DRG no. 1. (1 RU , Normal Through, self terminating type) asper DD Specs.	2	Canare	32MD-ST	8517	80640.00	161280	18%	29030.40	190310.4
23	b.HD-SDI video cables with matching connectors as per site Requirement (DRG No. 1 & 2) between the HD SDI Input patch panels to Output patch panel via 64x64 SDI Router and upto the input of Encoders as per DD Specs: Each of Canare make HD-SDI Video cables with matching connectors model L2.5 CHD. All the L2.5 CHD cable is provided with BNC Connector to meet the DD specification.\$	2	Canare	L-2.5 CHD	8544	13145.00	26290	18%	4732.20	31022.2
24	c.Female to Female BNC Termination panel for all inputs and outputs of SDI Router as per DD specs.	2	Canare	16TU-JRU	8543	12539.00	25078	18%	4514.04	29592.04
25	d.HD-SDI Patch Cord (Impedance-75ohm , cable length-3 feet , as per DD specs,	48	Canare	MVPC01	8544	1044.00	50112	18%	9020.16	59132.16
26	e. HD-SDI Patch Cord (Impedance-75ohm , cable length-10feet (minimum)) \$	16	Canare	MVPC01	8517	3133.00	50126	18%	9023.04	59151.04

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S.No.	Description of items offered by bidder	Total Qty/Units (Nos./Seat/Lots/ Jobs)	Make Offered	Model Offered	HSN Code	Unit Price in INR	Total Price without Tax in INR (Inclusive of all incidental Charges)	GST @5%, 12%, 18% & 28%	Total GST in INR	Total Price With GST in INR.
27	7.Digital encoder operating on 4:2:0 mode with MPEG-2, H.264/ MPEG-4 and H.265/HEVC compression without any limitation by way of hardware, software up-gradation (including stat Mux Support) Consisting of :- 5		Alame		8543					
28	a. Digital encoder with SDI Input Signal for 32 SDTV channels in MPEG-2 & H.264/ MPEG-4 compression including 16 channels in H.264/ MPEG-4 & H.265/HEVC compression without any limitation by way of hardware & software upgradation. Each encoder chassis shall also be capable to take MPEG-2 TS over IP input and decode & re-encode SD & HD TV channels as per technical specifications of tender documents without any limitation by way of hardware & software upgradation. Noise reduction hardware / software for SD & HDTV, four stereo audio channel including Dolby Digital (AC-3) 5.1 Audio(decoding and encoding ) & Dolby Digital plus 5.1 audio (decoding & Encoding) with audio level processor & loudness control. Logo inserter, ancillary data and dual redundant power supply units for all encoders. As per DD specs consisting of:  (Titan Live Encoder)1U platform for multi-screen transcoding , Encoding IP, SDI source chassis compatible with TITAN Live/Mux Software only. Ingesting any IP source. Enables to capture up to 2 x 8 SDI inputs. In each SET, there will 4 Encoder chassis as Main. Details and No of Licenses per Encoder chassis are as follows:-  Contrl. 1-TITAN-SW-SERVER-PLUS-QUM-Titan Live Encoder)1U R640 Dell HW Chassis platform for multi-screen transcoding. Encoding IP, SDI source chassis compatible with TITAN Live/Mux Software only. Ingesting any IP source. Enables to capture up to 2 x 8 SDI inputs. 2-TL-MPEG2SD. Mpeg2 SD encoding.- Number of Licenses 16 3-TL-H.264SD. Mpeg4 SD encoding.- Number of Licenses 16 4-TL-H.264HD. Mpeg 4 HD encoding.- Number of Licenses 4 5-TL-HEVC-HD. HEVC HD encoding.- Number of Licenses 4 6-TL-ALC. Audio Level Control.- Number of Licenses 64 7-TL-DD-PLUS-DEC.- DOLBY PLUS DECODING.- Number of Licenses 4 8-TL-DD-DEC.- DOLBY DECODING.- Number of Licenses 4 9-TL-DE-DEC.- DOLBY E DECODING.- Number of Licenses 4 10-TL-DD-PLUS-ENC-DOLBY DIGITAL PLUS ENCODING-Number of Licenses 4 11-TL-DD-ENC.- DOLBY ENCODING.- Number of Licenses 4 5	2	Alame	TITAN Live	8543	8521680.00	17043360	18%	3067604.80	20111164.8
29	b. Two Redundant Digital encoder chassis similar to main chassis per set without any limitation by way of hardware & software up-gradation as per DD specs. (TITAN-SW-SERVER-PLUS-DUM) In each SET, there will 2 Encoder Chassis as backup. Details and No of Licenses per Encoder Chassis are as follows:-  1-TITAN-SW-SERVER-PLUS-QUM-Titan Live Encoder)1U R640 Dell HW Chassis platform for multi-screen transcoding. Encoding IP, SDI source chassis compatible with TITAN Live/Mux Software only. Ingesting any IP source. Enables to capture up to 2 x 8 SDI inputs. 2-TL-MPEG2SD. Mpeg2 SD encoding.- Number of Licenses 16 3-TL-H.264SD. Mpeg4 SD encoding.- Number of Licenses 16 4-TL-H.264HD. Mpeg 4 HD encoding.- Number of Licenses 4 5-TL-HEVC-HD. HEVC HD encoding.- Number of Licenses 4 6-TL-ALC. Audio Level Control.- Number of Licenses 64 7-TL-DD-PLUS-DEC.- DOLBY PLUS DECODING.- Number of Licenses 4 8-TL-DD-DEC.- DOLBY DECODING.- Number of Licenses 4 9-TL-DE-DEC.- DOLBY E DECODING.- Number of Licenses 4 10-TL-DD-PLUS-ENC-DOLBY DIGITAL PLUS ENCODING-Number of Licenses 4 11-TL-DD-ENC.- DOLBY ENCODING.- Number of Licenses 4 5	2	Alame	TITAN Live	8543	4260940.00	8521680	18%	1533902.40	10068832.4
30	8. IP Data and Network Switches Consisting of :-				8517					

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31	1-(1+1) IP Data Switch 48 port with inbuilt dual power supply unit and rack mounting kit. (2 nos per set) as per DD specs consisting of:-WS-C3850-48T-E 2-Cisco Catalyst 3850 48 Port Data IP Services-CON-SNCA-WSC-3850TE SNTC 8X7XNCD MKT TRL 3-Cisco Catalyst 3850 4 x 1GE Network Module- C3850-NM-4-1G 4-India AC Type A Power Cable-CAB-TA-IN 5-No Stack Cable Selected- C3850-STACK-NONE 6-No Stack Power Cable Selected- C3850-SPWR-NONE 7-350W AC Config 1 Power Supply- PWR-C1-350WAC 8-C3850-48 IP Base to IP Services E- Delivery License-C3850-48-L-E 9-DNA SUBSCRIPTION OPTOUT- C3850-DNA-OPTOUT 10-Config 1 Secondary Power Supply- PWR-C1-350WACZ 350W AC UNIVERSAL-S3850UKB-189 11-LXLH SFP transceiver module, MMF/SMF, 1310nm,DOM GLC-LH-SMD= 1000BASE	2	Cisco	WS-C3850-48T-E	8517	2064694.00	4129388	18%	743289.84	4872677.84
32	b. 1- IP Network switch 48 port with inbuilt dual power supply unit with rack mounting kit, as per DD specs consisting of:-WS-C2960-48TC-S 2- Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Lite -WS-C2960-48TC-S 3- MKT TRL Catalyst 2960 Plus 48 10/100 + 2 T/SFP- CON-SNCA WSC:2960S SNTC 8X7XNCD 4- Power Cord India, Right Angle -CAB-IND-RA 5- SFP transceiver module, MMF/SMF, 1310nm, DOM- GLC-LH-SMD= 1000BASE-LXLH	2	Cisco	WS-C2960-48TC-S	8517	114115.00	228230	18%	41081.40	269511.4
33	c.CAT-6 Network cable with connector as per site requirement and drawing no 2 (40 x 3 = 120 mtr per set)	2	Canare	RJ45-4P+	8544	17881.00	35762	18%	6437.16	42199.16
34	g. IP Encapsulator with multiplexer for statistical Multiplexing in (1+ 1) configuration consisting of:	2	Alame	TITAN-Mux	8543					
35	h. IP Encapsulator with multiplexer in (1+1) configuration (1 Multiplexer as Main and 1 Multiplexer as backup) for statistical multiplexing with DVB- CSA (V1 & V2) compliant iCAS encryption, minimum two DVB-CSA simulcrypt Scrambler license with ECM & EMM and iCAS enabled four independent ASI output port license with option of generating free to air ASI output for Monitoring as per DD Specs consisting of: 1-TITAN-SW-SERVER-2RU-DL01-2U platform for multi-screen transcoding IP source, or for the Mux. 2-RU DELL chassis R740 compatible with TITAN LiveMux Software only, ingesting any IP source. Server platform with TITAN Mux Software for stations multiplexing. Can run on any TITAN-SW server, or virtualized. ASI board for TITAN Mux SW. Enables 2 x 4 configurable inputs/outputs. 2-TM-RATE MUX-Statcal Multiplexing ,Rate Limiting 3-TM-BASIC-Transpot Streams (Individual) - Number of Licenses 4 4-TM-SIMULCRYPT-Simulcrypt support for CAS- Number of Licenses 2 5-TM-PIDMERGING- PID MERGING - Number of Licenses 4 6-TM-RATE-STATMUX- Statical Multibolewing - Number of Licenses 4	2			8543	2106482.00	4212964	18%	788333.62	4971297.52
36	i. 8x8 or better matrix ASI router (SDI Compatible) wired for all input and output consisting of				8517					
37	a. Base unit fully wired for 8x8 or better matrix input and output as per DD Specs Consisting of: 2 CR0808-3GIG 8x8 Single Link 3Gbps HD Serial Digital Video Router, 1RU	2	Grassvalley	CR0808-3GIG	8517	157281.00	314562	18%	56621.16	371183.16
38	b. Inbuilt controller / logic modules as per DD specs is included	2	Grassvalley	Included in router	8517	Included		18%		

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39	c. Inbuilt auto switchable redundant power supply unit as per DD specs consisting of : Redundant Power Supply for Compact Routers, Remote Panels, and 8900 RCP - XY and Single Bus	2	Grassvalley	CRPS1	8517	Included		18%		
40	d. X-Y control panel with cable as per DD specs consisting of: Remote Panel expansion kit for 1 RU, 8x8 Button Panel 1RU, Redundant Power Supply for Compact Routers, Remote Panels, and 8900	2	Grassvalley	RP16, CP0808, CRPS1	8517	Included		18%		
41	e. Single bus remote control panel with cable as per DD specs consisting of : Remote Panel expansion kit for 1 RU, 8x8 Button Panel 1RU, Redundant Power Supply for Compact Routers, Remote Panels, and 8900	2	Grassvalley	RP16, CP0808, CRPS1	8517	Included		18%		
42	f. Installation, testing and system integration	1	Falcon	Falcon	SAC995461	Included		18%		
43	11.Network Management System (NMS) for compression equipment consisting of :									
44	a. Compression equipment control system Software	2	Alame	AMS	8471	1629388.00	3258776	18%	586579.68	3845355.68
45	b. Compression equipment control system hardware consisting of rack mounted main server in (1+1) master - slave configuration or cluster configuration with client, each server with dual power supply modules and KVM switch as per DD specs consisting of: 1-AMS-SERVER-DU01-1U server Dell R340 HW Chassis platform for AMS. ATEME Management System - Standard core software (Element Management + Automation + Correlation). AMS -Standard or Advanced core software Backup Unit (element licenses included). ATEME Management System - Standard edition-Element license. 2. KVM Switch with accessories: Make: ATEC, Model No. CS1732B, Qty-1 Set 3. Monitor : Make : LG Monitor 22" Model No.: 22MP68VQ, Qty-1 Set	2	Alame	AMS-SERVER-DU01	8471			18%		
46	c. Client work- station with required license for remote monitoring of all NMS: The remote desktop feature allows to client PC or systems to connect to NMS system to monitor or control the headend components added on NMS or monitored by NMS system . Apart from this ATEME provides an user friendly APP, that will be installed on Client PC to quickly access the NMS remotely. \$	4	HP	Z-240	8471	60000.00	320000	18%	57600.00	377600
47	d. 1-24 port IP network switch for NMS Monitoring with client work- station in remote locations. as per DD specs consisting of:-WS-C2960+24TC-S 2- Catalyst 2960 Plus 24 10/100 + 2 T/SFP LAN Lite -WS-C2960+24TC-S 3- MKT TRL Catalyst 2960 Plus 24 10/100 + 2 T/SFP- CON-SNCA-WSC2962T SNTC 8X7XNCD 4-Power Cord India, Right Angle -CAB-IND-RA 5- SFP transceiver module, MMF/SMF, 1310nm, DOM- GLC-LH-SMD- 1000BASELXLH \$	4	Cisco	WS-C2960+24TC-S				18%	6528.95	42800.96
48	e.CAT-6 Cable with connector as per site requirement Canare make CAT-6 Cable with connector model RJ45-4p+ is provided to meet the DD Specifications. \$	2	Canare	RJ06-4P+	8544	17681.00	35762	18%	6437.16	42198.16
49	12. Essential items/ Works (if any) to complete the installation of compression system (different OEM/FALCON MAKE Essential items / works (if any) to complete the installation) \$	0	Falcon	Falcon		Included		18%		

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50	13. Installation, testing and system integration	1 Job	Falcon	Falcon	SAC995461	Included		18%		
51	14. Provision of cable tray consisting of:	1 Job			SAC995461	137412.00	137412	18%	24734.16	162146.16
52	a. Providing & installing cabin tray with cover on top of equipment racks as per site requirement for laying of all cables as per drawing.	1 Job	Falcon	Falcon	SAC995461			18%		
53	b. Installation, testing and system integration	1 Job	Falcon	Falcon	SAC995461			18%		
54	15. Ku- Band receive setup for down link monitoring consisting of:				8529					
55	a. Ku- band receive antenna 120 cm with LNEF	4 Sets	Solid	SD-0120G	8529	2857.00	11428	18%	2057.04	13485.04
56	b. Installation of above 4 Antennae	1 Job	Falcon	Falcon	SAC995461	Included		18%		
57	c. RF cables as per site requirement. (Minimum 150 mtrs )	1 Lot	Cannare	L-2.5 CHD	8544	13716.00	13716	18%	2468.88	16184.88
58	d. Any other essential item to complete the installation of antenna system if any (different OEM/FALCON MAKE Essential items / works (if any) to complete the installation)\$	0 Sets	Falcon	Falcon	SAC995461	Included		18%		
59	e. Installation, testing and system integration	1 Job	Falcon	Falcon	SAC995461	Included		18%		
60	C. Monitoring System							18%		
61	16. Confidence level Monitoring system consisting of :									
62	a. 17 inch (Nominal) LCD (TFT) professional broadcast colour Monitor with integrated speakers, model KVM-1753W17 (nominal) wide screen multi format LCD video monitor along with rack mounting kit. \$	2 Nos.	Konvision	KVM-1753	8528	93750.00	187800	28%	52500.00	240000
63	b. Professional grade Integrated Audio/ Video Monitor with >=4" TFT/ LCD screen of high resolution and integrated speakers. It should accept 2 HD/ SD-SDI inputs with redocked output, including audio De-Embedded, decoding of dolby Digital (AC-3) 5.1 audio and dolby Digital plus 5.1 Audio and Dolby Digital plus 5.1 audio as per DD specs consisting of: Professional grade Integrated Audio/ Video Monitor with >=4" TFT/ LCD screen of high resolution and integrated speakers. It accepts 2 HD/ SD-SDI inputs with redocked output, including audio De-Embedded, decoding of dolby Digital (AC-3) 5.1 audio and dolby Digital plus 5.1 Audio and Dolby Digital plus 5.1 audio 1-AMP2-E16V-M-16 channel, 3G/HD/SD-SDI, audio with video monitor, Dolby D/E/DDL+, 2RU. \$	2 Nos.	Wohler	AMP2-E16V-M	8543	656180.00	1312360	18%	236224.80	1548584.8
64	c. Prof. IRD's (with L-band inputs of DVB-S & DVB-S2, DVB-ASI & IP input) with DVB ASI, SD-SDI, HD-SDI, AES / EBU, HD SDI embedded audio, SD-SDI embedded audio, one downconverted SD-SDI of HD-SDI, Dolby Digital (AC-3) 5.1 audio & Dolby Digital plus 5.1 audio (E-AC-3) output, MPEG-2 TS over IP output with multi service filtering facility and having 4:2:0 & 4:2:2 compliant for MPEG-2, H.264/ MPEG-4 AVC and 4:2:0 Compliant for H.265/ HEVC decoding and common interface slot hardware, BISS mode-1 & BISS-E Compliant DR5000-DF-CHD-HEVC12-Universal Contribution Decoder SD&HD, MPEG-2(4:2:0 & 4:2:2)/MPEG-4(4:2:0 & 4:2:2 & 8 & 10-bit)/HEVC (4:2:0 & 4:2:2 & 8 & 10/12-bit) - 16 Audio mono channels on SDI or 8 AES digital audio, audio pass-through, 2 IP, 2ASI, 4 DVB-S/S2/SX inputs 3x3C-SDI & 2 ASI outputs - 1RU, 19" BSS 07/E - ProMPEG FEC - UP to 4 DD/DD+ decoding - Full option package included (DR5000-DF-CHD-HEVC12) - DVB-CI Interface two CAM slots included - Dual PSU - Dual Power Plug - DR5000-LIC-DLB-FULL-Software license - Dolby Digital (AC3), Dolby Digital Plus ( AC3+) Audio decoding support up to 4 audio tracks (mono, stereo or 5.1). \$	2 Nos.	Alerna	DR5000	8543	220223.00	440446	18%	79280.28	519726.28

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65	Prof. IRDs (with DVB-ASI & IP input) with DVB-ASI, SD-SDI, HD-SDI, AES/EBU, HD SDI embedded audio, SD-SDI embedded audio, one downconverted SD-SDI, Dolby digital AC-3) 5.1 audio & Dolby digital plus 5.1 audio E-AC-3 output, MPEG-2 TS over IP output with multi service filtering facility and having 4:2:0&4:2:2 compliant for MPEG-2, H.264/ MPEG-4-AVC and 4:2:0 compliant for H.265/ HEVC decoding and common interfaces for hardware, BISS mode-1 & BISS-E Compliant. DR5000-DP-CH-HD-HEVC12-Universal Contribution Decoder SD&HD, MPEG-2(4:2:0 & 4:2:2)/MPEG-4 (4:2:0 & 4:2:2 & 10-bit)/HEVC (4:2:0 & 4:2:2 & 10/12-bit) - 16 Audio mono channels on SDI or 8 AES digital audio, audio pass-through, 2 IP, 2ASI, 4 DVB-S/S2/S2X inputs 3x3G-SDI & 2 ASI outputs - 1RU 19" - BISS 0/1E - ProMPEG FEC - UP to 4 DDVD+ decoding - Full option package included (DR5000-DP-CH-HD-HEVC12) - DVB-C1 interface two CAM slots included - Dual PSU - Dual Power Plug, DR5000-LIC-DLB-FULL- Software license - Dolby Digital (AC3) & Dolby Digital Plus ( AC3+) Audio decoding support up to 4 audio tracks (mono, stereo or 5.1).\$	2	Asterne	DR5000	8543	220223.00	440446	18%	79280.28	519726.28
66	32x 32 SDI router with one x-Y panel, one signal bus remote control panel dual redundant power supply and accessories as per DD Specs consisting of: Vega 30 - 34x34 video Router with PSU, Vega 30 PSU (Main or redundant), XY & Single bus control panel. Route to any destination from any source using memomonic dial up. Vega 30-34x34 video Router with PSU-FGAFP VG30 (VG30) Vega 30 PSU (Main or redundant) -GAP-PSU (VG30-PSU) XY & Single bus control panel. Route to any destination from any source using memomonic dial up - FGAEK 6026776X (6026776).\$	1 set	Grass Valley	FGAFP VG30 (VG30) , FGAFP VG30-PSU (VG30-PSU), FGAEK 6026776X (6026776) 6026776 XY	8517	489786.00	489786	18%	88161.48	577947.48
67	20x2 HD-SDI / ASI patch panel, 75 ohm impedance as per DRG no. 3 (1 RU, Normal through, self terminating type) Canare make patch panel model 20DV to meet the DD Specifications.\$	7 nos	Canare	20DV	8543	49879.00	321853	18%	57933.64	379786.54
68	Essential Itemworks (if any ) to complete the installation of above conference monitoring system (different OEM/FALCON MAKE Essential Items / works (if any) to complete the installation)\$	1 set	Falcon	Falcon	SAC996461	Included		18%		
69	Installation, testing and system integration	1 job	Falcon	Falcon	SAC996461	Included				
70	Input and downlink Monitoring of SDTV and HDTV Channels Consisting of :									
71	Multi viewer display system with remote panel for MPEG-2 TS over IP Streams of input Source signal + 4 nos. DVI input. Each set shall have inbuilt MPEG-2 & MPEG-4 decoders of 40 SDTV with embedded audio including MPEG-4 & HEVC main 10 decoders of 16 HDTV with Dolby Digital (AC-3) 5.1 audio/ Dolby Digital plus 5.1 audio channels with two independent video display output as per drawing no. 4. As per DD Specs consists of : Kaleido-IP X320 multi-image IP processor. Ultimate processing performance for simultaneous decoding up to 128 SD/HD MPEG-2 or 84 SD H.264 or 42 HD H.264 video programs. Includes 2 Independent HDMI/DP outputs, 4 GIGE ports, redundant power supply, 1RU frame KIP-X320 Ethernet Remote Control Panel and KM Gateway- KALEIDO-RCP2 Decode license for H265/HEVC SD/HD video CODEC. One license per Kaleido-IP KIP-OPT-HD-HEVC. This license enables each Kaleido-IPX320 set to decode and display 32 HD channels of H265/HEVC in HEVC only mode.\$ Decode license for up to 32 Dolby Digital stereo or 5.1 (AC3) programs- KIP-OPT-DEC-DD-5.1 Decode license for up to 32 Advance Audio codec(AAC) Stereo or 5.1 programs- KIP-OPT-DEC-AAC-5.1 8 Passive DVI to HDMI converter cable Edge Signal Monitoring Device - Quad Channel to enable HDMI input Capability-EDGEVISION-4, \$	2 Sets	Grass Valley	Kaleido-IP X320	8543	2423943.00	4847686	18%	872683.48	5720269.48

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72	b. Work station with software licenses including one client license for controls and configuration of display on existing 55" Display system as per DD requirement	1 Sets	HP	Z-240	8471	80000.00	80000	18%	14400.00	94400
73	g. De-Modulator cum descrambler unit (DVB-S & S2) with common interface slot hardware (Max 8 service per CI Slot for 40 TV service and 8 radio services per stream pre set (one chassis should consist of multiple modules), If De- Modules & Descrambler offered in separate chassis shall also be acceptable.  De Modulator Consists of: XSSR-NEPQ-3001 (hardware) Neptune SIS2/S2X Satellite Demodulator, QPSK/QPSK, 15Mbaud, Dual PSU - 2x RF L-Band inputs (9502150 MHz) - 4x ASI outputs and 2x 1 Gb Ethernet ports option XSSO-NEPQ-36MB (software) - Symbol Rate < 36 Mbauds option XSSO-NEPQ-TSP (software) TS Streaming over IP HDC-Multi-220V Chassis (hardware)\$ 19" 1RU chassis with LCD front panel to be mounted with up to 6 Hdm modules (6 slots)including: - 1x 220V AC PSU - 1x gigabit control port (RJ45) and 2 x gigabit data port (RJ45). - 1x RF GPS/Glonass input (TNC), 1x PPS and 1x 10 MHz inputs (BNC) Option chassis Hdc-Multi-4n20V Redundant (hardware) -Optional redundant 220V AC input for HDCmulti chassis Hdm-TSdescrambler (hardware) TS Descrambler module of Hdc chassis using 1 slot with 2 x DVB-CI slots (PCMCIA)	3 Sets	ENENSYS Technologies	Neptune+HDM-TSdescrambler	8527	1155922.00	3467766	18%	624197.68	4091963.88
74	d. Multi viewer display system with remote panel for MPEG-2 TS over IP streams of Down link signal + 4 nos DVI Input, each set shall have inbuilt MPEG-2 & MPEG-4 Decoders of 40 SDTV with embedded audio including MPEG-4 & HEVC decoders of 16 HDTV with Dolby Digital (AC-3) 5.1 audio/ Dolby Digital plus 5.1 audio channels with two independent video display output as per Drawing no. 4, as per DD specs consisting of:  Kaleido-IP X320 multi-image IP processor: Ultimate processing performance for simultaneously decoding up to 128 SD/HD MPEG-2 or 34 SD H.264 or 42 HD H.264 video programs. Includes 2 independent HDMI/DP outputs, 4 GIGE ports, redundant power supply, 1RU frame KIP-X320 Ethernet Remote Control Panel and KM Gateway- KALEIDO-RCP2	2 Sets	Grass Valley	Kaleido-IP X320	8543	2423843.00	4847686	18%	872583.48	5720209.48
75	Condit Decode licenses for H265/HEVC SD/HD video CODEC. One license per Kaleido-IP -KIP-OPT-HD-HEVC. This license enables each Kaleido-IPX320 set to decode and display 32 HD channels of H265/HEVC in HEVC only mode.\$ Decode license for up to 32 Dolby Digital stereo or 5.1 (AC3) programs- KIP-OPT-DEC-DD-5.1 Decode license for up to 32 Advance Audio coded(AAC) Stereo or 5.1programs-KIP-OPT-DEC-AAC-5.1 Edge Signal Monitoring Device - Quiet Channel) to enable HDMI input Capability EDGEVISION 4, 8 Passive DVI to HDMI converter cable	1 Set	HP	Z-240	8471	80000.00	80000	18%	14400.00	94400
76	e.Work stations with software licenses including one client license for controls and configuration of display on existing 55" Display System	8 Sets	RF Design	LS10BEL-75F	8543	76106.00	608872	18%	109596.96	718468.96
77	f.active Splitter (L- Band ) I- input and 8 output g.ASI splitter as per requirement (1:4)	10 Nos	RF Design	8000777	8543	13361.00	133610	18%	24049.80	157659.8

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78	Decoders (MPEG-2 & MPEG-4) for 40 SDTV Channels including MPEG-4 & HEVC Decoders of 16 HDTV Channels (one Chassis should consist of multiple modules) (if MPEG-2, MPEG-4 and HEVC decoders are part of multi-viewer then separate decoders need not be offered) MPEG-2, MPEG-4 and HEVC decoders are part of multiviewer \$	4 Set	Included in multiviewer	Included in multiviewer	8543	Included in multiviewer		18%		
79	Interconnecting cables from multi viewer system to existing 55" LCD Display system for Display of Stream as per drawing no.4	1 Set	Falcon \$	Falcon \$	8544	Included		18%		
80	42/40 inch (nominal) Led display system, Samsung Make 42/40 inch display system model DC 43 \$	2 Sets	Samsung	DC43	8526	29714.00	59428	28%	16639.84	76057.84
81	Dolby Digital 5.1 audio Home theater JBL make Dolby Digital 5.1 audio Home Theater model cinema 610 \$	2 Sets	JBL	Cinema 610	8516	57142.00	114284	18%	20571.12	134855.12
82	Essential items/ works (if any) to complete the installation of above input and down link monitoring system. (different OEM/FALCON MAKE Essential items / works (if any) to complete the installation) \$	0 Set	Falcon	Falcon	SAC995461	Included		18%		
83	Installation, testing and system integration	1 Job	Falcon	Falcon	SAC995461	Included		18%		
84	D.Measuring Equipment									
85	Multi format Test Signal Generator Mainframe India Power Cord, Dual Channel SD/HD/3G-SDI Test Signal Generator Module for TG8000 or TG700 mainframe (Opt. 3G required for 3G-SDI support) - 2 independent channels of SD/HD/3G-SDI test signal outputs with separate test and test/black Out per channel, Analog Black Generator Module for TG8000 or TG700 mainframe - 4 independently selectable black burst or HDTV H-level sync outputs, Audio Generator Module for TG8000 or TG700 mainframe - 4 AES/EBU pair independent outputs: 1 DARS output; and one 48KHz word clock output, some descriptions are as follows: 1. Multi format Test Signal Generator Mainframe - TG8000 2. Standard Warranty Extended to 5 Years. Covers parts; labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the process-TG8000 R5 3. India Power Cord- TG8000 A11 4. Dual Channel SD/HD/3G-SDI Test Signal Generator Module for TG8000 or TG700 mainframe (Opt. 3G required for 3G-SDI support) - 2 independent channels of SD/HD/3G-SDI test signal outputs with separate test and test/black Out per channel-SDI 5. Standard Warranty Extended to 5 Years. Covers parts; labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the process-SDI7 R5 6. Analog Black Generator Module for TG8000 or TG700 mainframe - 4 independently selectable black burst or HDTV H-level sync outputs-BG7 7. Standard Warranty Extended to 5 Years. Covers parts; labor and 2 day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the process-BG7 R5	1 Set	Tektronix	TG 8000, SD17, BG7, AG7		1191669.00	1191669	18%	214500.42	1406169.42

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86	<p>Contd.</p> <p>8. Audio Generator Module for TG8000 or TG7000 mainframes - 4 AES/EBU pair independent outputs, 1 DARS output, and one 48kHz word clock output</p> <p>9. Standard Warranty Extended to 5 Years. Covers parts, labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the process-AG7 RS</p> <p>19. Digital waveform monitor (with measurement facility) as per DD Specs consists of:</p> <ol style="list-style-type: none"> <li>Multi-Standard: Multi-Format Waveform Monitor; 2SDI inputs (HD and SD-SDI) support on the same inputs-exito direct); Base unit includes HD: SD and DualLink signal formats support; 3G- SDI Optional WFM7200</li> <li>Add Option AD Capabilities (Analog and Digital Audio - Embedded or Discrete AES) Plus support for Decoding and Monitoring Dolby E; Dolby Digital Plus; and Dolby D Audio; include Loudness monitoring- WFM7200 DPE</li> <li>Physical Layer Measurement Package (incl. automated measurement of HD/SD Eye pattern parameters; jitter; and cable parameters; jitter waveform display); Option 3G required for 3G-SDI physical layer measurements-WFM7200 PHY3</li> <li>Add support for out-of-service AV delay measurement; An audio option must also be ordered - WFM7200 AVD</li> <li>19 inch; 3RU; full-depth; Dual Rack Cabinet that accommodates a combination of one or two-WFMxxxx; WFM5xxx; WFM6xxx; WFM7xxx or WFM8xxx Series products-SWFMRACK-NN</li> <li>FINAL ASSY: FILLER PANEL; COVERS UNUSED RACK; IDENTICAL TO THE 9 DIGIT 65048791X USED FOR CUSTOMER SERVICE REPLACEMENT; WFM50F06-WFM50F06</li> <li>Standard Warranty Extended to 5 Years. Covers parts; labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the Process-WFM7200 RS</li> <li>India Power Cord- Opt. A11</li> </ol>	1	Tektronix	WFM 7200, WFM7200 DPE,WFM7200 DPE,WFM7200 AVD,WFMRACK-NN,WFMRACK-NN,WFM7200 A11	9031	1786457.00	1786457	18%	321552.26	2108019.26
87	<p>20. MPEG Real time transport Stream Monitor as per DD specs consists of :</p> <p>MPEG Real time transport Stream Monitor-model: MTSA-HW</p> <ol style="list-style-type: none"> <li>MPEG real system incorporating 1RU 19" full rack platform. This includes: GME (NIC) Interface, Internal USB dongle and requires: MTSA-HW</li> <li>options to be available. The base unit includes Qty1 floating license-Capability -MTSA-HW ALZRPK</li> <li>MTSA-HW ALZRPK; MTSA-HW ASI Add multi-port ASI interface</li> <li>Add dual input DVB-S/Q2 interface. Card supports dual port QPSK/8PSK or single port 16APSK/Q2/PSK demodulation. Includes serial BER, MER, SNR, constellation plots, MER per carrier, impulse response, spectrum transfer function-MTSA-HW DSE</li> <li>Standard Warranty Extended to 5 Years. Covers parts; labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the process-MTSA-HW RS</li> <li>Add MTSA rack-mount kit. Includes rack-mount slides and kits- MTSA-HW RACK</li> <li>India Power Cord -Opt. A11</li> </ol>	1	Tektronix	MTSA-HW, MTSA-HW ALZRPK MTS A-HW ASI, MTSA-HW DSE, MTSA-HW RACK, Opt. A11.	9031	3341952.00	3341952	18%	601551.36	3943503.36

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88	<p>21.a.160 Channel Video logger with minimum 90 days content storage facility and required software &amp; licenses as per DD specs consisting of:</p> <p>170 nos- MR Recorder SPTS. Software Non-stop(Loop) compliance recording during selected time (not limited in software). WEB Interface.</p> <p>170 nos - MR Transcoder. Input: UDP and RTP IP TS HD or SD/Multicast or Unicast(SPTS or MPTS)/HEVC, H.264 or H.265 with any Audio Codec to H.264 with AAC in customized bitrate and resolution.</p> <p>20 nos - MultiEncoder HD. Software for encoding Video and Audio inputs HD/SD SDI and Composite signals to IP MPEG2 TS/H.264 and MPEG2 with any bitrate and resolution up to 1620x1080. Multiplexer included.</p> <p>170 nos-MultiScreen Licenses. Analyzer. Real time multi-channel multivideo monitoring software(without visualization on screen). Analyzing incoming signals for video problems: Frozen Video, Black Video, Aspect Ratio... and audio problems: Audio Overflow and Audio Silence... Analyzing for TS Errors according ETSI TR-290 1st and 2nd Priorities.</p> <p>7 nos- HW 4U Supermicro case, Dual PSU, Single 14 Cores CPU, 4x4GB RAM, 2 NIC's, SSD for OS, Quadro P2000, Windows 10 Pro 64 bit, 28TB HDD RAID 5.</p> <p>8 nos- HP4U.M - Quad HD/SD-SDI capture card.</p> <p>2 nos - Client PC for logger.</p>	1	Stream Labs	Multi Rec	8521	16438846.00	16438846	18%	2958992.28	19387638.28
89	<p>Condit.</p> <p>Hardware for Server L1</p> <p>Make: Stream Labs.</p> <p>Model: 14CMV2000NC2</p> <p>Configuration Details:</p> <p>HW 4U Super Micro case, Dual PSU 700W x 2</p> <p>Intel Xeon CPU 14 Cores.</p> <p>Intel 32 NIC's - 1 for Management, 1 for MPEG over IP</p> <p>SSD for OS.</p> <p>Nvidia Quadro P2000.</p> <p>Microsoft Windows 10 Pro 64 bit.</p> <p>28TB HDD RAID 5</p> <p>HP4U.M - Quad HD/SD-SDI capture card</p>	1	Cisco	WS-C3850-48T-E	8517	1234948.00	1234948	18%	222290.64	1457238.64
89	<p>21.b.</p> <p>IP data switch 48 port with inbuilt dual power supply unit and rack mounting kit as per DD specs consisting of:</p> <p>1-(1+1) IP Data Switch 48 port with inbuilt dual power supply unit and rack mounting kit. (2nos per set) as per DD specs consisting of-WS-C3850-48T-E</p> <p>2-Cisco Catalyst 3850 48 Port Data IP Services-CON-SNCA-WSC3887E SNTC 8X7XNCD MKT TRL</p> <p>3-Cisco Catalyst 3850 4 x 1GE Network Module- C3850-NM-4-10</p> <p>4-India AC Type A Power Cable-CAB-TA-IN</p> <p>5-No Stack Cable Selected- C3850-STACK-NONE</p> <p>6-No Stack Power Cable Selected -C3850-SPWR-NONE</p> <p>7-350W AC Config 1 Power Supply- PWR-C1-350WAC</p> <p>8-C3850-48 LAN Base to IP Services E- Delivery License-C3850-48-L-E</p> <p>9-DNA SUBSCRIPTION OPTOUT- C3850-DNA-OPTOUT</p> <p>10-Config 1 Secondary Power Supply- PWR-C1-350WAC2 350W AC UNIVERSAL S3850UK9-169</p> <p>11-LX4LH SFP transceiver module, MMF/SMF, 1310nm,DOM GLC-LH-SMD= 1000BASE</p>	1	Set							

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90	21 C. 16 port digital intercommunication System with five remote wired rack mounted and three wireless IFB bell pack unit and redundant power supply. AEO make 40 port digital intercommunication System model Crossnet 40) 1. CROSSNET 40 - 40 port Intercom Matrix- AEO Crossnet 40 1RU, 20 VoIP proprietary ports, 12 analogue ports and 8 digital proprietary ports. Front port for headset and mic, built-in speaker, 4 crosspoint keys, 8 GPIO, front USB for map load and internal redundant power supply. 2. TP8116- AEO TP8116 16 keys hybrid panel for rack, 1 RU, 16 keys and 2 LCD screens, up to 64 virtual keys (4 pages).1 digital port, 2 IP ports (DANTE). 1 analogue port. Microphone and built-in speaker included. 3. Wireless IFB with Transmitter .Receiver , ear set along with standard Accessories- Sennheiser EW IEM G4	1 set	AEO	Cross net 40+ TP 8116	8443	1179428.00	1179428	12%	141531.36	1320959.36
91	22.Colour laser printer with network printing facility for A4 Size.	1 Set	HP	M154NW	8443	30628.00	30628	18%	5513.04	36141.04
92	23.6W laser printer with network printing facility for A3 size HP make 6W laser printer with network printing facility model-436N \$	1 set	HP	436N	SAC 995461	45600.00	45600	18%	8208.00	53808
93	24. Any other essential items/ works to complete the Measuring system (different OEM/FALCON MAKE Essential items / works (if any) to complete the installation)\$	0 Set	Falcon	Falcon	SAC 995461	Included		18%		
94	25. Installation, testing and system integration	1 Job	Falcon	Falcon		Included		18%		
95	E. Power supply system							18%		
96	26.SDBs with industrial MCCBs & MCBs to meet the requirement of all supplied equipment with 30% (nominal) spare capacity to connect additional rack load in future and change over switch consisting of: Havells MCCB: IHLSHAFF0015 (15A – 100A) Havells SDB : OVE Series Havells MCB : DHMGDSPF063 Havells MCCB : IHLANDCT0160 Havells Cables: 3 Core-16sqmm Havells Cable: 4 Core-25sqmm	1 Set	Havells	Havells	8336	217542.00	217542	18%	39157.56	256699.56
97	a.SDBs with industrial MCCBs & MCBs and three core Copper power supply cables to meet the requirement of all equipment supplied in compression room connected with (1+1) UPS power Supply system and (1+0) UPS power supply system Havells MCCB: IHLSHAFF0015 (15A – 100A) Havells SDB : OVE Series Havells MCB : DHMGDSPF063 Havells MCCB : IHLANDCT0160 Havells Cables: 3 Core-16sqmm	1 Set	Havells	Havells	8304	Included		18%		
98	b.SDBs with industrial MCCBs & MCBs and three core copper power supply cables to meet the requirement of all equipment in monitoring room connect with (1+1) UPS power Supply system and (1+0) UPS power supply system. Havells MCCB: IHLSHAFF0015 (15A – 100A) Havells SDB : OVE Series Havells MCB : DHMGDSPF063 Havells MCCB : IHLANDCT0160 Havells Cables: 3 Core-16sqmm	1 Set	Havells	Havells	8304	Included		18%		
99	c.Supply, laying and integration of power supply Cables (4 core copper ) between existing (1+1)UPS PDPs and above side SDBs minimum length – 100 m Havells Cable: 4 Core-25sqmm \$	1 Set	Havells	Havells	8304	300685.00	300685	18%	54123.30	354808.3

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100	d. Supply, laying and integration of power supply cables (4 core copper) between existing (1+0) UPS PDP's and above said SDB's (Minimum length 150 mtr) Havells Cable: 4 Core-25sqmm \$	1 Set	Havells	Havells	8504	300685.00	300685	18%	54123.30	354808.3
101	e. Any other essential items/ works to complete the power supply system (different OEM/FALCON MAKE Essential items / works (if any) to complete the installation) \$	0 Job	Falcon	Falcon	SAC 995461	Included		18%		
102	f. Installation, testing and system integration	1 Job	Falcon	Falcon	SAC 995461	Included		18%		
103	F. Miscellaneous items									
104	27. Control & operators table made of powder coated MS sheet or aluminium matching with existing table to install remote operations & control computer, Digital waveform monitors, picture monitors, monitoring panel with stereo loudspeaker and other relevant equipments (FALCON Make & Model control & operators table is provided to meet DO specification) \$	1 Job	Falcon	Falcon	SAC 995461	228571.00	228571	18%	41142.78	269713.78
105	28. Anti static Modular testing and measuring work station/ bench. \$	1 No	Falcon	Falcon	8537	Included		18%		
106	29. Required no. of 19", 1000 mm (depth) equipment rack frames (min 14 nos rack) including installation material audio video cables etc (belden 18550A with matching BNC HD connectors of Genare make or equivalent), CAT-6 cable (AMP or equivalent) Rittal MAKE Model) 7035 for 19", 1000 mm (depth) equipment rack frames including item mentioned under BOM sr. No. 109. \$	1 Set	Rittal	RAI, 7035	8537	1302160.00	1302160	18%	234388.80	1536548.8
107	29 a. i) Supply of electronic thermometer and electronic hygrometer and installation inside top of each rack and its integration with existing monitoring system.	1 set	Spaceage	Environment monitoring System	9025	416000.00	416000	18%	74880.00	490880
108	29 a. ii) 48 port IP switch for control of temperature and humidity.	1 set	Dirk	DES1210-42	8517	14669.00	14669	18%	2640.42	17309.42
109	30 a) Required no. of mains Distribution units and single phase Auto changeover switch (Min 1 no. Single phase auto changeover switch and 2 nos of MDUs per rack i.e. total min. 14 single phase auto changeover switch and 28 Nos. MDUs) with sequential delayed output on start up, output status LED and IEC-3 Pin (for these equipment which have single power supply input ) for each equipment in every rack (Similar to one 4 power or TLS or better) (This item is included in item at Sr. no 106) \$	1 Set	Included in item no 29		8536	Included		18%		
110	30 b) Industrial type 3 pin male - Female connector (min 28 nos) as per site requirement Havells MAKE & Model IP67 DHQB630332 for industrial type 3 pin male - Female connector to meet the DO Tender requirements \$	1 Set	Havells	IP67 DHQB630332	8536	80000.00	80000	18%	14400.00	94400
111	31. Earthing system and earth pits (minimum 3 nos) Falcon make Earthing system and earth pits is provided to meet the DO Tender requirements against this item \$	1 Set	Falcon \$	Falcon \$	SAC 995461	580000.00	580000	18%	104400.00	684400
112	32. Installation material and laying of cables protection pipes	1 Job	Falcon \$	Falcon \$	SAC 995461	Included		18%	0.00	
113	33. One raised platform / trolley with wheel and braking arrangement to reach up to overhead Twin make One raised platform / trolley model LMPM 14TF is provided to meet the DO Tender requirements \$	1 Set	Twin	LMPM 14TF	8716	76000.00	76000	18%	13680.00	89680

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114	34.Set of tools consisting of video connectors crimping tools with suitable die, -sets of all used connectors, BNC puller, cable strippers of all use cables, RJ45 crimping tools set of screwdrivers and spanners, allen key set, DC powered screw and nut openers, digital multimeter , digital clamp on meter, weller soldering station and other essential tools required to be used during installation (set of tools Falcon/Various OEM make & model is provided to meet the DD Tender requirements) \$	1 Set	Falcon/ Various OEMs	Falcon/ Various OEMs		26571.00	26571	18%	5142.78	33713.78
115	35.installation and testing system integration and commissioning of all equipments supplied for compression and monitoring system for expansion of DTH system	1 job	Falcon/OEM	Falcon/OEM	SAC 995461	150000.00	150000	18%	27000.00	177000
116	G. Documentation.							18%		
117	36. Technical manuals ( Hard Copy) for all the equipment supplied. Installation and operational user manual \$	2 Sets	Falcon/OEM	Falcon/OEM	4901	1400000.00	2800000	5%	140000.00	2940000
118	37. Technical manuals (softcopy)for all the equipment supplied on CD's (with search facility etc),( 2 sets for the station, 1 set for DG DD and 1 set for ADG(NZ)). Installation and operational user manual \$	4 Sets	Falcon/OEM	Falcon/OEM	5323	Included		18%		
119	38.All software backups are to be supplied on Cds/DVDs software backups \$	2 sets	Falcon/OEM	Falcon/OEM	5323	Included		18%		
120	H. Training.							18%		
121	39. Three separate seminars (include theoretical & Practical training hands on experience) for door/dishan personnel at site. Atleast, one working day training of each module shall be delivered by the factory engineer/personnel of oem ( This training period is not part of delivery period) are offered (various OEM/FALCON MAKE Three separate seminars are offered against this item ) \$	1 Job	Falcon/OEM	Falcon/OEM	SAC 9954	Included		18%		
122	a. Baseband equipment(01 working day) as per DD requirement shall be provided (various OEM/FALCON MAKE seminar for Baseband equipment are offered against this item ) \$	1 Job	Falcon/OEM	Falcon/OEM	SAC 9954	Included		18%		
123	b. Digital compression system including NMS(3 workings day) as per DD requirement shall be provided	1 Job	OEM	OEM	SAC 9954	Included		18%		
124	c. Monitoring and measurement equipment (01 working day) as per DD requirement shall be provided	1 Job	OEM	OEM	SAC 9954	Included		18%		
125	Furniture should also be provided for installation of various offered monitoring equipment in monitoring and control room matching with existing furniture shall be given. (FALCON Make & Model furniture for installation of various offered monitoring equipment is provided to meet DD specification) \$	As per Site Requirement	Falcon/OEM	Falcon/OEM		Included		18%		
<b>Grand Total including GST</b>									<b>18710784</b>	<b>124937766</b>

(Rupee Twelve Crore Forty nine Lakh Thirty Seven Thousand Seven Hundred Eighty Six only.)

\$ As per clarifications from OEMs and Bidder submitted by the M/s Falcon vide letter No., Nil dated 28.09.2019, 10.11.2019 and 05.03.2020.