Section V. Schedule of Requirements

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List of Goods and Delivery Schedule

					Delivery Date			
Line Item No	Description of Goods	Quantity	Unit	(project side) Destination specified	Earliest Delivery Date	Latest Delivery Date	Offered delivery date (to be provided by the bidder)	
1.	Supply, Installation, Commissioning of TV & Radio Monitoring system			DGI	3 MONTHS	4 MONTHS		

2. List of Related Services and Completion Schedule

[This table shall be filled in by the Purchaser. The Required Completion Dates should be realistic, and consistent with the required Goods Delivery Dates]

Service	Description of Service	Quantity	Unit	Place where Services shall be performed	Final Completion Date(s) of Services	
1				Department of	4 months after the	
	Onsite			Government	Agreement	
	Training	20 Nos		Information	Date	
2	Warranty		3 Years			
3		Five years of	f service agre	ement including		
	After sale	suppling spa	re parts after	the warranty		
	service	period.				
	Agreement.	Should sign	a maintenanc	e agreement with		
	clauses of	DGI providin	DGI providing call services 24*7.			
	the service					
	agreement					
	may					
	negotiate.		/			

2011-1

TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION AND COMPLIANCE SCHEDULE OF TENDER FOR Supply, Installation, Commissioning of Television and Radio Monitoring System

TV Recording & Monitoring System			
Introduction	Yes	No	Remarks
Capable of supporting up to 32 expandable TV			
Channels recording			
The Software should be highly scalable to be able to			
take care of further expansions			
The recordings to be saved in H.264 MPEG-4 format			
The Monitoring of content should be possible on 24 x			
365 basis			
The Monitoring should be possible on both live as well			
as recorded content		v.	
Retention period should be able to be configured			
Capable to save the media in any bitrate and resolution			
as needed, up to HD/SD resolution			
Storage is done on FIFO basis			
The System should provide Instant-Real Time Access			
of the broadcast Content			
The system should allow to monitor channels in live			
and archived or any combination (some channels in			
Live, some channels from the archive)			
Ability to control all video channels one by one or all			
together buy the control panel			
System should be able to monitor multiple channels at			
the same time with 2 Nos of 61" or better multiviewers			
(16 channels each)			
System should be capable to support 20 number of			
concurrent users			
The System software should be able to interface			
seamlessly compliant to a TCP/IP network			
Users should be able to interact with the system from			
any PC, MAC, iPad, via a common high-speed IP			
network			
Users should be able to work with the system from any			
common browser			
The software should be able to cater multiple users			
logging and monitoring at same time			
The Monitoring System should continuously capture,			
encode, analyze and store live video streams in an			

automatically –maintained storage system containing 90		
days of recorded audio/video		
System should support multiple audio tracks support,		
AC3 Audio		
Support for multiple-language subtitle recording,		
teletext, closed caption		
Quick access and retrieval of recorded content		
Quickly export clips to multiple destinations using a		
built-in transcoding engine with support for all industry		
standard file formats and frame sizes		
Powerful feed quality monitoring with logs		
Web application – no client software required.		
Access from any PC, Mac, iPad, tab, android and etc		
System needs to show the Storyboard of the relevant		
content to navigate throughout the video content using a		
thumbnail storyboard; be able to adjust the interval of		
the thumbnails for in-depth scan		
System should allow to navigate using the video		
progress bar – Point your mouse to any place on the		
playback progress bar and receive an immediate		
thumbnail preview of that location and its timestamp;		
Clicking at any point will bring the video to that		
location		
Inbuilt Clip Editor		
The System Software should support cut to cut Editing		
The system should allow to start creating clips 15		
seconds from live		
System should be able to create multiple segments clip		
System should have Zooming options while creating the		
clips		
Each segment of the clip should have the ability to		
Each segment of the clip should have the ability to include its own data and thumbnail		
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Each segment of the clip should have the ability to include its own data and thumbnail The clips should have any metadata, including a thumbnail		
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Each segment of the clip should have the ability to include its own data and thumbnail The clips should have any metadata, including a thumbnail Ability to add a logo to the clip, anywhere on the clip Ability to blur any part (or multiple parts) of the clip, with different transparency options, for a defined time		
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The System shall support exporting selected clips/ to			
external storage (e.g. hard disk of user's PC, DVD,			
flash drive, etc.), or to FTP, Network share, social			
media, or send the clip via mail			
Created clips can be shared or private			
Allow for export of entire programs as media files in a			
range of formats/bitrate and resolution. Ability to add			
any other format when needed, even not in the list.			
While export (extract), the user should be given an			
option to export with overlay or without, option to			
export with or without a thumbnail picture (still photo)		/	
and/or for any segment of the clip and with or without			
metadata or with a date and time stamp, without the			
subtitles, with or without the Loudness values			
Ability to pre-define export profiles: bitrate, frame size,			
format, destination (like FTP, You tube, Network, etc.)			
Allow exported programs or clips to optionally include			
subtitles/audio tracks		~	
Allow sending a clip by mail, save as file, or sent			
directly to FTP, YouTube/other			
Allow to create clips that are frame accurate, so no			
frames will be lost in the exported clip			
System should allow to customize the metadata			
System should allow automatic clips creation			
Front-End User Interface			
The System should provide the most user friendly and			
intuitive user interface which is easy to understand and			
can be used by both Technical and Non-technical staff			
The System shall be fully web-based such that its front-			
end user interface is accessible using common Internet			
browsers			
No client software has to be installed on the client's			
machine			
Inacimie			
Playback of Recordings			
TV channels can be played back with no more than 30			
seconds of delay in comparison with the real-time			
broadcasts			
The System shall support displaying the recording date			
and time on the screen during playback of the recording			
System should allow to monitor the live feed, go back a			
few seconds/minutes from live, and jump back to Live			

The System shall include intuitive playback controls for smooth fast forward and backward playback of the recordings		
The system will allow to move in fast forward in any		
speed rate, such as x 2, x 4, x8, or in 0.5 speed or to		
move frame by frame		
The System shall support the viewing selected subtitles		
		K
Content detection		
The System Software should have capability to		
fingerprint and track content on audio signature		
(fingerprinting)		
The System Software should have capability to		
fingerprint and track content on video signature		
(fingerprinting)		
System should be able to scan back archived content for	7	
ads detection		
Ability to detect repetitive video/audio clips: ads,		
promos, election campaigns.		
Ability to detect shorter version of the same content,		
like same advertisement, shorter version		
Content detection accuracy must be above 90%		
The system should be able and display new ads		
automatically, ads that have not been marked before		
Ability to provide any report – the user can build any		
report needed from the UI		
EPG/As run log file integration		
The software should automatically import as-run		
logs/EPG		
The system should present the EPG/As run log data		
The system should allow searching on the EPG/As run		
log file		
The system should allow to play a program directly		
from the As Run Log or EPG file		
The system should be able to use the EPG/As run log		
files information for automatic clipping and able to		
delete manually.		
Saalahilitzu		
Scalability:		
The system software should be Extremely Scalable		
keeping in view of future expansion of system setup for		
monitoring		

The system should be expandable to	add additional		
channels without major downtime or			
3	<u> </u>		
System Health Monitoring:			
The System Software should have the	e ability to		
monitor, log and automatically send			
any of the following signal quality in			
immediately	i ogulullios		
1. Loss of video, static video, or blac	k video		
2. Loss of audio or audio level below			
level range		/	
3. Mobile alert system for loss of aud	lio/video	7	
System administration			
Administrator shall be defining rights	s for accessing		
software, creating user accounts, group			
System to support integration to Acti	*		
bystem to support integration to real	ve Directory		
Specification			
Networked Server based Digital			
Audio and Video logger system			
with PAL [B,G] De-modulators to			
record and monitor receiving	Yes		
signals for 32 off-air TV channels	105		
Supplier should provide antennas	Yes		
to receive 32 Channels	103		
To fulfill TV Broadcasting law	Yes		
obligations	105		
TV Channel Archiving	Yes		
Real time monitoring of all	Yes		
channels live or recorded	105		
TV channel name, date and time	Yes		
superimposed on each channel			
whether it is live or recorded			
Compare programming to	Yes		
competition			
Continuous recording (24/7) for	Yes		
90Days or scheduled recording(TV			
and Radio)			
19" rack mountable system	Yes		
Video Input	Analogue		
	Composite		
	1Vp-p, 75Ω, Sync		
	negative BNC or		
	RCA		
Audio Input	Mono/ Stereo		

		1	
	unbalanced, -		
	10dBu, Greater		
	than $47K\Omega$,RCA.		
Recording	Suitable format		
Compression	H.264 - MPEG 4		
Video Compression Bit Rates	Auto/256kbps		
required	/384kbps/512kbps		
	/ 768kbps / 1MB /		
	2Mbps /or better.		
Video Storage	32 Channels @		
	512kbps, 24/7 for		
	90 Days		
Backup Storage	Raid Protected		
	128TB working		
	space,		
	Expandable		
Playback & Export	Resolution (PAL)		
Radio Recording and Monito	ring System		
Features			
Selectable audio compression rates r	anging from		
80kbps to lossless compression.			
Adjustable number of logging days of	on each input.		
Balanced inputs and outputs with XI			
supplied.			
Optional skimming control inputs.			
Live input monitoring on logger unit	- •		
Selectable audio failure alarms.			
Supplier should provide antennas to	receive 64 FM		
Channels.			
FM Radio Capture			
64 FM stations, expandable.			
Adjustable number of logging days of	on each station.		
All FM logging in stereo.			
Received signal strength, FM stereo	pilot and RDS		
indicators.			
Live monitoring on logger unit.			
FM RDS radio text logging.			
Selectable carrier & audio failure ala	arms.		
Platform			
Industrial 4U rack mount case.			
		•	

Inbuilt color LCD screen wi	th slide-out keyboard and		
mouse pad.	in shde-out keyboard and		
Dual redundant hot-swappal	hle nower supplies		
Hardware RAID-1 or RAID			
discs with optional hot-stand	11		
Inbuilt DVD R/W drive for	<i>.</i>		
Recording time of up to three			
dependent on the number of	t to available disc space and		
compression rate used).	channels and addio		
1 /			
64-bit quad-core processor.64-bit Windows 7 Professio	not operating system		
Network playback using fre	**		
SNMP monitoring and alarr	ns, including KDS / DLS		
text.			
Technical Specification		X	
Recording Time:	180 days,(individually		
	selectable on each channel		
	or assemble)		
FM Capture:	87.5 – 108.5MHz tuning		
	range (50kHz steps). BNC		
	antenna connection. 48kHz		
	sampling. 64kbps		
	compression.		
No of FM Channels	64+		
Internet Streams:	Shoutcast, Icecast & RTMP		
	protocols		
SNMP:	Input audio / carrier / DAB		
	status/RDS-DLS text		
	monitoring. Selectable trap		
	generation.		
Storage:	Hardware RAID-5		
	(striping) or RAID-1		
	(mirroring). DVD R/W		
	drive (+/- formats		
	supported).1TB x 4 with		
	advance backup system.		
Processor:	64-bit Pentium quad-core		
	32GB RAM.		
Operating System:	Windows 10 Professional		
	or better		
Specification for Touc	h Panel		

65-inch 1080p touch displa	with smooth touch anti			
glare coating	hscreen with sleek bezel-less			
	es just like smart phone or			
tablet	es just like smart phone of			
	SB ports in the front panel of			
the display.	SB ports in the front panel of			
Display a PC, Mac or Chro	mebook via HDMI and			
enable touch via USB				
Compatible with PC's intera	active whiteboard software			
Size	65" Diagonal			
Resolution	1080p HD (1920 x 1080)			
Mounting Orientation	Landscape			
Display Technology	Direct LED backlight			
Pixel Pitch	0.40mm			
Response Time	8ms			
Contrast Ratio	4,000:1			
Brightness	300cd/m2		¥	
Input Connections	HDMI x 5, VGA, USB x 4			
	(2 for hub, 1 for optional			
	on-board PC, 1 for touch),			
	3.5mm line-in audio			
	(mono), component,			
	composite, RS232			
Wireless Connectivity	wireless display capability			
	for multiple computers at			
	the same time			
Output Connections	RCA stereo audio out,			
	3.5mm stereo out			
Touch Technology	Projected Capacitive			
Touch Points	10+			
Speakers	Front-facing 10W x 2			
Mount	Vesa standard 400×			
	400mm M6 screws			
Accessories Included	GA cable, USB cable,			
	Trolley, Touch pen, power			
	cord, remote control, quick			
	setup guide			
Supply, Installation, Commissioning &				
Training				
Bidder shall provide all nec	essary equipment for TV			
reception including TV & F	FM antenna system, RF			
demodulators and system ra	ncks			

Diduct stant provide onsite operational and maintenance TERMS & Conditions Audio, Video, Power and control cables, connectors and accessories as required for complete installation shall be supplied, Installed, commissioning and 2 weeks training for selected staff in groups of 20. (Details about training attached on page 47) Supplier must have 10 years' experience of Professional Audio-Visual broadcasting. Industry and minimum have 5 years' experience for TV & Radio monitoring implementation Purchase orders should be attached. Supplier must have ninimum 100 million revenue and should submitted the last 3 years (2015, 2016, 2017) audited finance reports. Any component or accessory required for complete and successful operation of each system, either specified in detail or not, shall be supplied and installed, as necessary and should be quoted separately as optional items. Shall develop shop drawings for the system indicating the specific Yes/No design and installation details, interconnection diagrams, etc., and complete system should be display on relevant area. Exclusive agent for the equipment offered and shall be responsible for after sales / service support. Shall have necessary test equipment and experienced manpower in similar works to carry out necessary installation letsib. Shall provide power line surge protection at all the main power supply points to protect equipment by high voltage surges of from lightning or otherwise. All brackets, and accessories for mounting and wiring shall be provided for proper installation. Biall provide Dower line surge protection at all the m	Bidder shall provide onsite operational and maintenance		
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Full HD 1080p 65" Multi system TV Monitor with wall			
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	bracket and stand. 02 no's		

Shall Provide 2 Nos of Full HD CCTV Camera and DVR with 30 days recoding storage for System room		
monitoring		
Maintenance, Warranty period shall be of 3 years from the date of commissioning of all the complete system		
provided under this contract. on call services 24*7,		
response time would be 2 hours and the problem must		
be solve within 24 hours, should sign a agreement with DGI		
5 years of service agreement including suppling spare parts after the warranty period.		
Local supplier or agent should submit an accredited	0	
authorization from the manufacturer. Partial or for the whole system.		

TRAINING

Conclusion of the System

This Broadcasting recording platform is a very powerful and best of breed solution for broadcasting digital recording, media monitoring and content verification. The ability to record TV and Radio channels monitor live or archived broadcast content, retrieve and share the relevant content immediately is essential. Web based media intelligence platform answers all these requirements. Such as data rating analysis, Ads detection, media research facilities, Audio/Video Quality Assurance and etc...

Department of Government Information should necessary monitoring and analyzing broadcast media is an essential part of daily activity. Most of the information that decision makers need is often found is the broadcast channels. This system has the ability to record, access and monitor broadcast content, share with other intuitions and search and retrieve immediately and accurately.

Training Goals

Twenty trainers are following contents:, such as

System configuration and maintains – selected areas only because some technical areas need to professional level engineering skills and knowledge and these areas recovery by warranty agreement.

Tracking - Data, Information, Ads, Audio and video levels

Subscribes - Development activities to the Nation

Training of Analyzing and Media Rating report prepare – (Technical and IT)

Media alert system training and etc...

5. Inspections and Tests

The inspections and tests shall be carried out by the officer/s nominated by the purchaser before payment made. Relevant diagrams, user manual, password, and drawing should be handed over to the purchaser before the inspection.

Supply, Installation, Commissioning of Television and Radio Monitoring System DEPARTMENT OF GOVERNMENT INFORMATION Bidding Document

N. J. J. J.