Broadcast Engineering Consultants India Limited (Under Ministry Of Information and Broadcasting) C-56A/17, Sector-62, Noida- 201307

Tender No. BECIL/PROJ/ITS&AV/Healthcare/2020 Dated: 10-04-2020

Corrigendum / Addendum No. 1

<u>Subject:</u> Corrigendum to Expression of Interest for EMPANELMENT OF AGENCY FOR SUPPLY OF HEALTHCARE EQUIPMENTS

Tender No. BECIL/PROJ/ITS&AV/Healthcare/2020 Dated: 10-04-2020

1. The following items are included in the EOI and their Technical specifications are attached as Appendix to this corrigendum.

- a) HAND HELD THERMAL IMAGING SYSTEM
- b) OPTICAL THERMAL FEVER SENSING SYSTEM
- c) COVID 19 PATIENT TRACKING TOOL
- 2. The Pre Bid queries of all the prospective bidders are attached as Appendix to this corrigendum.
- 3. The Important Dates of EOI has been amended as follows:

S.No.	Clause / Appendix / Page	Existing Clause	Amended Clause
1	Last Date of	17 April 2020	20 April 2020
	Submission	at 1200 Hrs	at 1200 Hrs
2	Date of Opening of	17 April 2020	20 April 2020
	Proposals	at 1700 Hrs	at 1700 Hrs

Note: Other Terms and conditions of the above said EOI will remain same.

s/d

General Manager

HAND HELD THERMAL IMAGING SYSTEM

S.No	Specifications			
1	Device shall be non-contact type for temperature measurement of human body and shall act like			
	a fever sensing system.			
2	Device shall read temperature of human body from a distance of around 02~05 meters			
3	Device shall work 24X7 with an auxiliary power source			
4	Device shall support external display			
5	Device shall be provided with blackbody setup for real time temperature calibration and			
	correction			
6	Detector type: Should be Uncooled FPA Microbolometer			
7	Array Size: Min. 160 X 120			
8	Pitch size < 25 μm			
9	Spectral Range: 8-14 μm			
10	Sensitivity ≤ 0.06 Degree Celsius @ 30 Degree Celsius			
11	Detector frequency \geq 50 Hz			
12	Sensor: CMOS			
13	Resolution: Min. 1.3MP			
13	The visual system shall have min. 02 LEDs for active illumination			
15	Frame Rate: 50Hz			
15 16	Video Output: PAL / NTSC			
IR Lens D				
17	FOV: 25° X 19°			
18	Should have manual focus			
18 19				
20	Minimum Focus Distance ≤ 10cm			
	Spatial Resolution ≤ 2.72mRad			
21	Display shall be Min. 3.5" LCD			
22	Display resolution shall be min. 640 X 480			
23	Display shall be colored			
24	Display shall be touchscreen type			
25	Polarity: Min. 11 colored palletes to suit user perception			
26	Image Display:			
26	Switchable infrared & visual image			
	Image overlay of infrared and visual image			
77	Image Adjustment:			
27	Auto / Manual adjustment of contrast and brightness Auto Enhancement mode			
28	Temperature measurement range of the device shall be +20°C to			
20	+50°C			
29	Temperature measurement accuracy shall be Minimum 0.3°C			
	Device shall have following features for calibration:			
30	Auto mode (with variable selectable time slots)			
	Manual mode			
31	Device shall have full screen maximum temperature tracking (hotspot tracking)			
	Device shall have an audio alarm for high temperature. High			
32	temperature value shall be adjustable as per user requirement in real time scenario.			
33	Device shall have feature to show high temperature part in a specific			
	marked color on the display			

	Device shall have following features for emissivity:
34	Adjustable emissivity from 0.01 to 1.0 (with increment least count of 0.01)
	Selection from pre-defined material list
35	Device shall have automatic background temperature correction feature.
	Device shall have following features:
	Date Adjustment
	Time Adjustment
	Temperature unit selection from °C, °F & K
36	Language selection
	Contrast adjustment
	Brightness adjustment
	LCD backlight adjustment
~ -	IP Address
37	The device shall have micro SD card slot.
38	Memory of the device shall be extendable up to 32GB
	Device shall store the following: 1. Manual / Automatic Storage
	Single frame infrared image
20	Infrared and visible image (associated)
39	Infrared and visible overlay image Infrared video
40	Infrared & visible overlay video Thermal image format: JPEG format with raw temperature measurement data
41	Visible image format: H.264
42	Device shall have voice annotation recording feature while capturing image
43	Device shall have text comment feature while capturing image
44	Device shall operate on li-ion rechargeable battery
45	Device shall operate for Minimum 03 hours on single charge of battery
46	Device shall be provided with 02 set of batteries
47	Device shall have auto sleep and auto shutdown feature
48	Device shall be provided with 01 micro SD card reader
49	Device shall have 12V DC power input interface
50	Device shall have video output feature
51	Device shall have in-built microphone
52	Device shall have in-built buzzer
53	The device shall have provision for mounting on tripod
54	Device shall be provided with lens cap, hand strap and sunshade for display
55	Operating temperature: Min10°C to +50°C or better
56	Storage temperature: Min40°C to +70°C or better
57	Encapsulation Min. IP 54
58	Relative Humidity: 5% to 95% (non-condensing)
59	Shock resistance: Min. 25G
60	Vibration resistance: Min. 2G
61	Drop 2m
62	Weight should be ≤ 1000 grams without battery
63	Temperature of blackbody shall be 37 Degree Celsius
64	Accuracy ≤ 0.2 Degree Celsius
65	Effective radiation plane ≥ 80mm
-	

66	Blackbody shall operate on 220V AC power supply		
67	Effective emission of blackbody shall be 0.96		
68	OEM should have its own NABL accredited lab facility in India for testing and calibration of optoelectronic equipment.		
69	OEM should have its own manufacturing and repair facility in India		
70	OEM should have its own NABL accredited lab facility for the following: High Temperature test Low Temperature test Humidity test Drop test To ensure proper testing of each device manufactured by OEM.		
71	OEM should have Quality management system certificate standard		

ONLINE THERMAL FEVER SENSING SYSTEM

S.No	Specifications		
1	System shall be non-contact type for temperature measurement of human body and shall act like a fever sensing system.		
2	System shall have both thermal and visual camera in single housing		
3	System shall read temperature of human body from a distance of around 03~10 meters		
4	System shall work 24X7		
5	System shall come alongwith a client software		
6	System shall be provided with blackbody setup for real time temperature calibration and correction		
7	System shall be able to measure temperature of atleast 30 persons present in the line of sight simultaneously		
8	System shall have feature of automatic body surface temperature correction		
9	System shall have feature of automatic calibration		
10	System shall capture alarm screen automatically		
11	Detector type: Should be Uncooled FPA Microbolometer		
12	Array Size: Min. 384 X 288		
13	Pitch size < 17 μm		
14	Spectral Range: 8-14 μm		
15	Detector frequency ≥ 50 Hz		
16	Sensor: 1/8" CMOS Progressive Scan Ultra Low Light System		
17	Resolution: Min. 1920 X 1080		
18	FOV: Horizontal > 32° Vertical > 18°		
19	FOV: 40° X 30°		
20	Should have fixed focus		
21	Minimum Focus Distance ≤ 10cm		
22	Focal length ≥ 9mm		
23	Polarity: Min. 09 colored palletes to suit user perception		
24	Temperature measurement range of the System shall be +20°C to +50°C		
25	Temperature measurement accuracy shall be Minimum 0.3°C		
26	Alarm response time shall be maximum 01 Second		
27	System shall have 12V DC power input interface		
28	Maximum power consumption of the system shall be 15W		

29	System shall be IP			
30	Network interface: RJ45 (Single connector output for both the			
50	cameras)			
31	The System shall have provision for mounting on tripod.			
32	Operating temperature: Min10°C to +50°C or better			
33	Storage temperature: Min40°C to +60°C or better			
34	Encapsulation Min. IP 54			
35	Relative Humidity: 5% to 95% (non-condensing)			
36	Weight should be ≤ 5Kg			
37	Temperature of blackbody shall be 37 Degree Celsius			
38	Accuracy ≤ 0.2 Degree Celsius			
39	Effective radiation plane ≥ 80mm			
40	Blackbody shall operate on 220V AC power supply			
41	Effective emission of blackbody shall be 0.96			
	The client software shall have following grids availables			
	The client software shall have following grids available: 1. Live Infrared-channel with temperature readings			
	2. Live Visual System channel with temperature readings			
42	3. High temperature alarm image from Infrared Channel			
	4. High temperature alarm image from Visual Channel			
	5. Live temperature status of human present in line of sight			
	Client software shall have atleast 04 configuration windows:			
	1. Live View			
43	2. Device Manager			
	3. System Configuration			
	4. History			
44	The application shall have face detection feature for both			
	thermal and visual stream			
45	The temperature of the human object shall be marked with them			
	in the video stream.			
	The software shall have feature for adjusting the following parameters of IR sensor:			
	1. Emissivity			
	2. Distance			
46	3. Humidity			
40	4. Brightness			
	5. Contrast			
	6. Adjustment to compensate the difference between body temperature inside body and			
	on the skin to show correct temperatures.			
47	The software shall have feature of correcting the deviation in			
	temperature.			
	The software shall have below mentioned features:			
48	1. Turning on / off Video recording			
	2. Turning On / Off image capturing			
	3. Turning On/Off audio alarm			
49	The software shall have feature of network configuration			

50	 There shall be feature in software to distinguish / configure the following: 1. Mild Fever 2. Fever 3. Severe Fever There shall be different alarms for different modes
51	The software shall have following alarm settings: 1. Track maximum temperature 2. Show maximum temperature value 3. Audible alarm 4. No Mask alarm
52	The software shall have feature for setting up black body in FOV of the camera for auto calibration and temperature correction.
53	The software shall record both video and image
54	The software shall have feature of masking high temperature radiating sources.
55	A PC is to be provided with minimum 01 month storage of video recording. Archival of every month data will be ensured by buyer.
56	OEM should have its own NABL accredited lab facility in India for testing and calibration of optoelectronic equipment.
57	OEM should have its own manufacturing and repair facility in India
58	OEM should have its own NABL accredited lab facility for the following: 1. High Temperature test 2. Low Temperature test 3. Humidity test 4. Drop test To ensure proper testing of each Camera manufactured by OEM.
59	OEM should have Quality management system certificate as per standard

COVID -19 PATIENT TRACKING TOOL

S.No	Specifications		
1.	Intelligence investigation platform & tactical tool to detect, prevent and investigate threats to national security using CDR, IPDR, Tower, Mobile Phone Forensics Data.		
2.	Should be an advanced analytics and intelligence software that uses Telecom & Internet Data to identify suspect Locations, Associations & Behaviour.		
3.	Should Trace contacts & connections of infected persons		
4.	Should Identify unknowing contacts with infected persons.		
5.	Should be able to Geo locate possible COVID-19 infected persons		
6.	Location based Analysis -		
	Easily Geo- Fence an area of interest (eg Meeting place, airport, mosque, railway station, bus stand etc) and identify all the people present at the location at the time of event		
7.	Should allow Investigator to identify the how many cell towers from different service providers are covering an incident place or a location on a map.		
8.	Should Identify the movement of COVID infected suspects, their cross-border movements, the people they come in contact with etc.		
9.	Trace where this person has been and if he or she has been to areas known for being high risk locations.		
10.	Should be able to Easily identify close contacts, frequent contacts as well as occasional contacts such as Uber drivers etc.		
11.	Should be able to collect information like where the suspect has spent most of his/he time and who all he or she has met. Zero in on connections with Watch List suspects		
12.	Should be able to Identify a suspects behaviour, see what he or she does on specific days of the week, where does he or she order food from, where does the suspect go for regular walks, where does he/she work during the day, where does he/she sleep at night etc.		

13.	Should be able to Identify All the places the "Infected Person" has visited	
14.	Should be able to Identify All the routes he has taken in the same time period.	
15.	Determine details of his foreign travel if any	
16.	Should Identify All the routes he has taken in the same time period.	
17.	Should Identify All the people present with him in a specific location at the same time as him based on Tower & LBS Info using geo fencing	
18.	Should Identify Travel services used such as UBER/Ola Share - Buses/Trains/ Flights/Long Distance share cabs/ vehicles booked and travelled	
19.	Should Identify Common friends to multiple COVID-19 infected persons	
20.	Should support Analysis of following types of telecom logs.	
21.	Individual CDRs/Billing Records	
22.	2G/3G/4G GPRS CDRs	
23.	IMEI Scans	
24.	Cell Tower/Mast Dumps	
25.	2G/3G/4G GPRS Cell Tower / Mast Dumps	
26.	ISD Dumps	
27.	Gateway Scans/Dumps	
28.	IPDR Data	
29.	Should allow user to create Visual Link Charts of Data to identify numbers of interest.	
30.	Should compatible with the i2 Analyst Notebook for advanced link Analysis	
31.	Should allow user to import data extracted from Mobile Forensic Tools like Cellebr UFED, Micro-Systemation XRYand HANCOM GMD etc.	

32.	Facility to use various base maps like Open Street Maps, Google Maps and Offline Maps without internet including offline satellite imagery.
33.	Must have offline vector base maps of All over India Pre-configured to use directly.

PRE - BID QUERY FOR EMPANELMENT OF AGENCY FOR SUPPLY OF HEALTHCARE EQUIPMENTS

Tender No. BECIL/PROJ/ITS&AV/Healthcare/2020 Dated: 10-04-2020

S.No.	EOI Document Reference(s)(Section& Page Number(s))	Content of EOI require Clarification(s)	Points of Clarification	BECIL'S RESPONSE
1	Section 2.1.1 (Scope of the Project)	to submit a compliance certificate from the principal manufacturer that the	55,	Yes, Bidder needs to provide Authorization Certificate from OEM.
2	Section 2.1.1 (Scope of the Project)	Item Description	items instead of all?	Bidder can apply for all or few items as per own discretion and it can provide the standard specification for its item. However, BECIL reserves the right to change the specifications as per end customer's requirement.
3	Section 2.1.1 (Scope of the Project – Note "c")	In addition to this, standard norms provided by concerned health authorities / ICMR for specification will prevail.		Bidder can provide their all certification. However, the standard norms provided by concerned health authorities / ICMR for specification will prevail.

			Productivity and Quality Council (IPQC)
			 CE by International Productivity and Quality Council (IPQC)
			 ISO 13485:2016 Certification by EUROPACERT
			CE by EUROPACERT
			 ISO 9001:2015 Quality Management System Certification by VRS
			 Product Tested & Certified by SIMA labs.
			Are we eligible to bid for the tender?
4	Section 4.5.2 (Financial strength of the bidder)	18, 2018-19	 We are registered under Companies Act, 2013 (18 of 2013) since February 2018. We can provide financial statements for the year 2017-18 and 2018 – 2019. The statement for the financial year 2019-2020 is yet to be filed. However, we can provide CA certification for our turnover of the year 2019-20. Are we still eligible to bid for the tender? Yes, however all the supporting documents needs to be submitted.

5		In Page no. 5, Clause 1.2 Point(4) mentioned payment		All the Bank Details are given in MANDATE FORM for fee
	Tender No. BECIL/PROJ/ITS&AV/Healthcare/2020 Page no. 5	mode - Offline/Online therefore, we would like to submit our bid through Online mode but there is no URL mentioned for Online tender portal. We would request you to kindly give us Online tender URL so, we can register and submit our bid.	Page no. 5, Clause 1.2 Point(4) Payment Mode- Offline/Online	submission. Also, the proposal needs to be submitted Online mode only as zip file, signed & scanned copy on Email address : <u>raman.rana@becil.com</u>
6		We would like to confirm that OEM Authorization is required from all equipment manufacturer.		Yes
7		As per current condition due to Covid-19 lockdown has been extended till 3 rd May, 2020, we would request you to kindly extend bid submission date for 7 days from the lockdown end date.		As it is an Emergency scenario, there is no request to be entertained for extension of EOI submission.
8	Section 2.1.1 (Scope of the Project)	Product requirement		This is an EOI for Empanelment of agencies. However, the quantities of each item will be provided at the time of issuing query/order.
9	Section 2.1.1 (Scope of the Project)	,,,	APPENDIX TECHNICAL SPECIFICATIONS. Please give the specifications	Bidder can apply for all or few items as per own discretion and it can provide the standard specification for its item. However,

				BECIL reserves the right to change the specifications as per end
				customer's requirement.
10				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
			Should be able to detect temperature	•
			of forehead for multiple persons at	These solutions needs to be
		Process single and multiple	same time and raise the automatic	complied as per the guidelines
	ltem no. 14 page no. 40	hotspots tracing and alarm	alarm for high temperature.	issued by various govt. agencies.
11				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
		Will be able to measure		domain specific best solutions.
		temperature from		These solutions needs to be
		32\$B!n(B to 42.5\$B!n(B with	Will be able to measure temperature	complied as per the guidelines
		a sensitivity of at least	from 30 \$B!n(B to 50\$B!n(B with a	issued by various govt. agencies.
	ltem no. 14 page no. 40	0.08\$B!n(B	sensitivity of at least 0.1\$B!n(B	issued by various gover ageneies.
12				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
			Operating environmental	domain specific best solutions.
			(surrounding) temperature range	These solutions needs to be
			should be -10 to 45\$B!n(B without	complied as per the guidelines
		Operating temperature -10	any need of closed or air condition	issued by various govt. agencies.
	ltem no. 14 page no. 40	+50\$B!n(B	area.	Service Systems Services
13				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
		Memory for data storage	should have minimum memory of	domain specific best solutions.
	Item no. 14 page no. 40	(expandable)		These solutions needs to be

				complied as per the guidelines
				issued by various govt. agencies.
14				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
				complied as per the guidelines
	11	Battery operated and works		issued by various govt. agencies.
45	Item no. 14 page no. 40	on external power supply	With battery backup of 4-6 hours	
15				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
		Built in color screen for		complied as per the guidelines
	Item no. 14 page no. 40	thermal images 5-8 inch	With Display of at least 22"	issued by various govt. agencies.
16				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
			Able to capture both thermal	These solutions needs to be
			(Resolution : 400 \$B!_(B 300) and	complied as per the guidelines
			digital camera image (Resolution :	issued by various govt. agencies.
17	Item no. 14 page no. 40	and digital camera image	1920 x 1080)	Bidders are required to submit
1/				EOI for Empanelment of agencies.
		Quality compliant with		
		standards for surgical N95		Bidders are expected to provide
		respirator: a. NIOSH N95, EN	Kn-95 standard should also be	domain specific best solutions. These solutions needs to be
	Item No-4 page no.38	149 FFP2, or equivalent	incorporated.	These solutions needs to be

				complied as per the guidelines
				issued by various govt. agencies.
18				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
		Quality compliant with		domain specific best solutions.
		standards for surgical N95		These solutions needs to be
		respirator a.	respirator a.	complied as per the guidelines
		NIOSH N95, EN 149 FFP2, or	NIOSH N95, EN 149 FFP2, KN-95 or	issued by various govt. agencies.
	Item no. 4 Page no. 38	equivalent	equivalent	
19				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
			Should be able to detect temperature of forehead for multiple persons at	
		Process single and multiple	same time and raise the automatic	complied as per the guidelines
		hotspots tracing and alarm	alarm for high temperature.	issued by various govt. agencies.
20				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
		Will be able to measure		These solutions needs to be
		temperature from 32°C to	Will be able to measure temperature	complied as per the guidelines
			from 30 °C to 50°C with a sensitivity	issued by various govt. agencies.
24	ltem no. 14 page no. 40	least 0.08°C	of atleast 0.1°C	
21				Bidders are required to submit
			Operating environmental	EOI for Empanelment of agencies.
			(surrounding) temperature runge	Bidders are expected to provide
		Operating temperature -10		domain specific best solutions.
	Item no. 14 page no. 40	+50°C	need of closed or air condition area	These solutions needs to be

				complied as per the guidelines
				issued by various govt. agencies.
22				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
				complied as per the guidelines
	Item no. 14 page no. 40	Memory for data storage (expandable)	should have minimum memory of 3Tb	issued by various govt. agencies.
23				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
				complied as per the guidelines
	Itom no. 14 noro no. 40	Battery operated and works on external power supply	With battery backup of 4-6 hours	issued by various govt. agencies.
24	Item no. 14 page no. 40			Bidders are required to submit
24				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
				complied as per the guidelines
		Built in colour screen for		issued by various govt. agencies.
	ltem no. 14 page no. 40	thermal images 5-8 inch	With Display of atleast 22"	issued by various govt. agencies.
25				Bidders are required to submit
			Able to capture both thermal	EOI for Empanelment of agencies.
			(Resolution : 400 × 300) and digital	Bidders are expected to provide
		Able to capture both thermal	camera image (Resolution : 1920 x	domain specific best solutions.
	ltem no. 14 page no. 40	and digital camera image	1080)	These solutions needs to be

				complied as per the guidelines
				issued by various govt. agencies.
26				Bidders are required to submit
				EOI for Empanelment of agencies.
		New Application to be		Bidders are expected to provide
		incorporated or to be	Application with central management	•
		integrated with existing	dashboard for Contact tracing and log	
		dashboard and modules	generation with photo authentication	complica as per the galacines
			of citizen movement and mangement	issued by various govt. agencies.
			with image processing engine and AI.	
27				Consortium is not applicable.
				Bidder can apply for all or few
				items as per own discretion
				and it can provide the standard
			Does Consortium is allowed? Apart	specification for its item.
				However,
				BECIL reserves the right to change
			companies also. So, if possible we can	
	3.1. QUALIFICATION CRITERIA - Page		have a collaboration and share all	customer's requirement.
28	no - 16	Business Consortium	solutions through a single platform.	Diddors are required to submit
28				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
		Rescue Team / Personnel		complied as per the guidelines
		Tracking GPS SOLUTION		issued by various govt. agencies.
	5	U		Bidders are required to submit
				EOI for Empanelment of agencies.
	Solution Objective	Tracking Norms Violation :		Bidders are expected to provide

			domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
			Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
	workers /employees which	Can we use Mobile as a GPS Tracking device which is already using by Arogya Setu App. As this will help to track maximum number of Workers	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
	Impersonation Control :		Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
	1. The above wrist watch/ I- Card/ App to be provided	Mobile using App. We can integrate	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide

			· · · · · · · · · · · · · · · · · · ·
	, , , , , , , , , , , , , , , , , , , ,	tracking device and geo fencing. This	•
		reduce the cost of another device and	
the the		generally all workers are having smart	complied as per the guidelines
	-	phones. This is easy to handle and	issued by various govt. agencies.
	nployees reference pictures	manage from anywhere.	
	nich will be used regularly		
	a designated set of		
	pervisory staff to compare		
	th the photos shot by the		
	orkers during working hours		
	f required), to manually		
	mpare the photos to		
	termine if the worker on		
the the	e field is the same as the		
on	e who is employed.		
			Bidders are required to submit
			EOI for Empanelment of agencies.
			Bidders are expected to provide
			domain specific best solutions.
			These solutions needs to be
		of all workers before impleneting Al	complied as per the guidelines
		Based face detection. Can Ageny will	issued by various govt. agencies.
Em	nployee.	provide the Workers pics?	
			Bidders are required to submit
			EOI for Empanelment of agencies.
			Bidders are expected to provide
			domain specific best solutions.
			These solutions needs to be
			complied as per the guidelines
Ca	lling Facility (Through		issued by various govt. agencies.
wi	rist Watch/App/I Card)		

		10. Dual Sim/Esim/Multiple Operator Connectivity.	Does mobile can be used for this mechanism.	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies. Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide
		Playback 2. As part of due diligence,		domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies. Bidders are required to submit
		the ULB needs to go back to historical data on the movement on particular personnel empyreal provides that feature for the ULB to go back in history to track the movement of any individual	What is Empyreal means? Is it a	EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
29	Page NO - 35	Live Monitoring		Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be

				complied as per the guidelines
				issued by various govt. agencies.
				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
			both are same. And need to	complied as per the guidelines
			understand the Empyreal	issued by various govt. agencies.
		Point no 3 & 4	terminology	
				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
		Time-bound In-		complied as per the guidelines
		personification with picture		issued by various govt. agencies.
				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
		1. A feature using the camera		These solutions needs to be
		for the manual picture		complied as per the guidelines
		capture of any ULB personnel		issued by various govt. agencies.
			Can we use Mobile & what is ULB?	issued by various govt. agencies.
30				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
	Solutions Components - Page No - 35			These solutions needs to be

				complied as per the guidelines issued by various govt. agencies.
		1. Wrist watch/I-Card/App with GPS, GPRS, Camera, speaker/microphone etc as the basic requirements to meet the solution objectives of taking attendance. The watch is charged using the built-in USB port on the watch.	Can we use mobile. This will having all solutions together like, gps, gprs, 4g, charging facilities, ios app, android app, speaker, microphone.	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
31	Appendix to Eol – Technical Specifications Page 39 Point 13 - Digital Infrared Thermometer (any make)	Technical Specifications of Digital IR Thermometer	In view of the current scenario and requirement of accurate, non- contact (measurement from a distance atleast a distance of 1-3 meters) equipment with very less response time; the specifications prescribed in the EoI are not relevant. It is suggested that instead of conventional IR Thermometer, technologically advanced Hand Held (Tripod Mountable) Thermal Imaging Systems should be solicited.	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
32	Appendix to Eol – Technical Specifications Page - 40	-	It is suggested that, in order to	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be

	Point 14 - Digital Thermal Scanner -		temperature of each and every pixel	complied as per the guidelines
	Full Body (with sensing to 3m and beyond)		in the entire thermal screen).	issued by various govt. agencies.
	beyondy		Further, with the advanced feature of	
			AI (Artificial Intelligence), the systems	
			are capable of Automatic Face	
			Detection (With / Without Masks),	
			Hot Spot Tracking (Categorisation of	
			fever – Normal, Moderate or Critical),	
			Intelligent Report Generation, etc.	
33			It is suggested that only Indian OEMs	No change
			having DIPP License for	
	3. Qualification Criteria & Proposal		manufacturing of Thermal Equipment	
	Evaluation		with relevant experience and NABL	
			accredited Testing an Calibration Lab,	
	Page - 16		be eligible to qualify for	
		-NA-	empanelment with BECIL for supply	
	3.1.1 Qualification Evaluation	-NA-	of Thermal Imaging equipment.	
	Criteria-Financial			
			Considering the criticality of current	
	2. Mandatory Certificates /		situation, it becomes mandatory that	
	Undertakings		the downtime of the equipment is	
			minimum and the device can be	
			tested and repaired in India itself.	
34			Technical specifications and details	Bidders are required to submit
			required for the following items listed	EOI for Empanelment of agencies.
			in Product requirement	Bidders are expected to provide
			* Integrated Unified Messaging	domain specific best solutions.
			system	These solutions needs to be
			*Disaster Management System /	complied as per the guidelines
			Application (with CCC)	issued by various govt. agencies.
	BECIL/PROJ/ITS&AV/Healthcare/2020		*IoT based ICT systems	
	pg14 - Section Product Requirement	Product Requirement	*Patient Movement Monitoring	

		system *Assets Movement Monitoring system *Smart ICU the document seems to be truncated post page 40	
36	Rescue Team / Personnel Tracking GPS SOLUTION	The solution lists requirements for watch/smartphone/app/Smart Id card. If the proposed solution is done only through mobile app, will the solution be permissible	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
37	 Rescue Team / Personnel Tracking GPS SOLUTION	If wristwatch/id card , etc is mandatory, then does the bidder require to procure and quote for these elements or BECIL will procure it separately ?	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
38	Rescue Team / Personnel Tracking GPS SOLUTION		Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.

20				Diddens and users insides a days it
39				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
			There is a mention of Empyreal	These solutions needs to be
	BECIL/PROJ/ITS&AV/Healthcare/2020		solutions; does the Rescue Workers	complied as per the guidelines
		Rescue Team / Personnel	system need to integrate with this	issued by various govt. agencies.
	Personnel Tracking GPS SOLUTION	Tracking GPS SOLUTION	Empyreal solution	
40				Bidders are required to submit
			There is mention of prototype to be	EOI for Empanelment of agencies.
			provided before the final	Bidders are expected to provide
				domain specific best solutions.
			wording states that BECIL will provide	These solutions needs to be
	BECIL/PROJ/ITS&AV/Healthcare/2020		this , however generally prototypes	complied as per the guidelines
		Rescue Team / Personnel	are delivered by service providers.	issued by various govt. agencies.
	Personnel Tracking GPS SOLUTION	Tracking GPS SOLUTION	Just wanted clarity on this	
41				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
	BECIL/PROJ/ITS&AV/Healthcare/2020		is there a requirement for providing	complied as per the guidelines
		Rescue Team / Personnel	Training on software onsite ? If	issued by various govt. agencies.
	Personnel Tracking GPS SOLUTION	Tracking GPS SOLUTION	onsite, then how many locations ?	
42				Bidders are required to submit
				EOI for Empanelment of agencies.
				Bidders are expected to provide
				domain specific best solutions.
				These solutions needs to be
	BECIL/PROJ/ITS&AV/Healthcare/2020		Is this app required to be integrated	complied as per the guidelines
		Rescue Team / Personnel	into an existing app or this will be a	issued by various govt. agencies.
1	Personnel Tracking GPS SOLUTION	Tracking GPS SOLUTION	standalone app ?	

43				Riddors are required to submit
43		Rescue Team / Personnel Tracking GPS SOLUTION	There is a mention of call routing to the rescue emergency services control centre. Is the requirement only to facilitate the call in case of a SOS emergency, or to setup a contact	Bidders are required to submit EOI for Empanelment of agencies. Bidders are expected to provide domain specific best solutions. These solutions needs to be complied as per the guidelines issued by various govt. agencies.
44	BECIL/PROJ/ITS&AV/Healthcare/2020		The bidder must attest the original EOI document with authorized signature and stamp as an acceptance of the EOI terms and conditions and submit the same along with the EOI response. In case of non- compliance, the proposal is liable to be summarily rejected. Is this required to be sent in hard copy given the lockdown sanctions.	The proposal needs to be submitted ONLINE only as zip file, signed & scanned copy on Email address : raman.rana@becil.com
45	BECIL/PROJ/ITS&AV/Healthcare/2020 pg 8 - Section- 1.3.6	Preparation of the Proposal	proposal, the bidder has to ensure that each page numbered and is duly signed by the bidder or his duly authorized representative. How is this possible ? A compliance statement offering the	The proposal needs to be submitted ONLINE only as zip file, signed & scanned copy on Email address : <u>raman.rana@becil.com</u> The proposal needs to be submitted ONLINE only as zip file,
	BECIL/PROJ/ITS&AV/Healthcare/2020 pg 8 - Section- 1.3.6	Preparation of the Proposal	EOI should be signed and attached	signed & scanned copy on Email address : raman.rana@becil.com

	BECIL/PROJ/ITS&AV/Healthcare/2020 pg 19 - Section- 4.1	All annexures require physical sign and company seal which is not	The proposal needs to be submitted ONLINE only as zip file, signed & scanned copy on Email address : <u>raman.rana@becil.com</u>
48	BECIL/PROJ/ITS&AV/Healthcare/2020	Procedure for submitting the EOI	The proposal needs to be submitted ONLINE only as zip file, signed & scanned copy on Email address : raman.rana@becil.com