

TMTii 56 - ENCP (Enhanced Network Camera Programme)

Secondary Competition Questions and Answers

Version 7 – 28/06/19

Our Ref	Date Received	Document Reference	Question and Answer	Date Released
1		CPF	<p><u>Highways England Statement</u></p> <p><u>Tender Amendment 1 – TA1</u></p> <p>Since the publication of this ITT a new version of the Collaborative Performance Framework has been made available. Therefore, please see the new version which has been uploaded to the Tender Amendment folder on Bravo:</p> <p><i>TMTii 56 - Collaborative Performance Framework V4.5</i></p>	24/04/19
2	31/05/19	RfQ	<p><u>Question:</u></p> <p>We respectfully request and extension of time of 1 week to allow us to complete our internal governance process and provide a complete / accurate tender submission.</p>	
			<p><u>Answer:</u></p> <p><u>Tender Deadline Extension</u></p> <p>The tender return deadline has been extended to Friday 21 June. There will be no further extensions possible to avoid delay to the programme. The Tender Query date has also been extended to Monday 10 June.</p>	03/06/19

3	05/06/2019	Tranche 1 Site List.XLS	<p>Question:</p> <p>Please could it be confirmed that the HEVID system is able to connect to ONVIF profile S compliant PTZ cameras over the preferred/proposed connections identified in file "Tranche 1 Site List.XLS"</p> <ul style="list-style-type: none"> • 3G/4G • Existing DSL • Existing NRTS 	
			<p>Answer:</p> <p>The HEVID system is able to connect ONVIF profile S cameras over the listed communications.</p>	13/06/2019
5	05/06/2019	Tranche 1 Site List.XLS	<p>Question:</p> <p>For the sites identified as "Existing DSL"/"Existing NRTS" is there a requirement to price for cellular transmission equipment.</p>	
			<p>Answer:</p> <p>No requirement to price for cellular transmission.</p>	13/06/2019
6	05/06/2019	Service information SI310, Environmental	<p>Question:</p> <p>Requirement ID E02, it is not clear whether the ELV power supply already exists and we will need to connect to it, or whether this is provided by the contract as part of the equipment supply. In reference E02 and the spreadsheet "Tranche 1 Site List.XLS" there are references to LV and ELV, do we presume that the ELV power will be provided and priced for by the contractor or is there another source of power available. If an existing source of power is available, please can a more detailed specification be provided e.g. a datasheet, or definition of whether the ELV power is AC or DC, plus its rating etc.</p>	
			<p>Answer:</p> <p>There is no requirement of the supplier to provide or modify the power supply at sites. The Tranche 1 site List lists the existing (or planned) power arrangements which are provided by the Area Teams and which the contractor will connect to. Existing power supply is provided and supplied as detailed in the Tranche 1 Site List.</p>	13/06/2019
7	05/06/2019	Service information SI310, Communications	<p>Question:</p> <p>The introductory paragraph states that dual SIM cards will be issued by Highways England. As there are a number of parameters associated with the SIM cards e.g. network type (Vodafone, 02 etc),</p>	

			capacity, IP address (fixed or dynamic), security (e.g. Closed User Group) etc please can details be provided, or will the supplier be able to call off SIM card parameters?	
			<p><u>Answer:</u></p> <p>At present, the actual network provider has not been identified and ENCP will establish an appropriate communications contract in line with Highways England process, prior to the supply of cameras. This will assume fixed IP addresses.</p> <p>As for traffic routing, the SIM card provider can provide internet breakout or an IPSec VPN/NNI. IPSec is the intended approach.</p>	13/06/2019
8	05/06/2019	Service information SI310, Communications	<p><u>Question:</u></p> <p>Some sites are expected to have poor communications in one network service provider or another or even both. Will the supplier be required to carry out Network Signal Strength surveys or is that something that NRTS will do prior to allocating the SIM cards.</p> <p>Will the client be responsible for adding the new CCTV Cameras to the VIH or will the ENCP supplier be responsible for this?</p>	
			<p><u>Answer:</u></p> <p>Highways England will arrange necessary Signal Strength surveys prior to the allocation of SIM cards. Highways England will arrange the adding of cameras to the VIH.</p>	13/06/2019
9	05/06/2019	Service information SI310, Functionality	<p><u>Question:</u></p> <p>Requirement F24 calls for the supplier to “Ensure the camera can be controlled to an adequate operable level with minimal lag time or delay”. Please could HE confirm that the ENCP supplier is exempt from lag/delay issues arising from poor reception and network quality of service issues caused by say network congestion.</p>	
			<p><u>Answer:</u></p> <p>The ENCP supplier is exempt from time lag / delay and quality issues resulting from network communications issues. F24 is a functional requirement and assumes normal and appropriate operating conditions.</p>	13/06/2019

10	05/06/2019	Service information SI310, Communications	<p>Question:</p> <p>Please could HE identify if they are expecting the ENCP supplier to aggregate/share the bandwidth available from the two SIM cards in any way.</p>	
			<p>Answer:</p> <p>The common standard for the dual SIM approach is to have one SIM as primary (Active) and the 2nd SIM as backup which will allow for fallover if there are any issues on the primary SIM.</p> <p>The device would need to detect that the primary SIM is no longer receiving service or adequate service and at this point the device would bring the secondary SIM up.</p>	13/06/2019
11	05/06/2019	Service information SI310, Communications	<p>Question:</p> <p>Shared Public 4G communications links are inherently variable in their quality of service both in available bandwidth and network latency, as we all know this is dictated by semi random issues such as weather and network congestion arising say from traffic queues. Is the ENCP CCTV equipment expected to be responsible for bandwidth management/output quality e.g. Variable Bit Rate in these circumstances or will this be dealt with in other ways.</p>	
			<p>Answer:</p> <p>It is not expected that the CCTV equipment will be responsible for managing the bandwidth, instead, the camera should be capable of automatic Variable Bit Rate to adjust the quality of the video stream in relation to bandwidth conditions or when the camera is in standby.</p>	13/06/2019
12	05/06/2019	Tranche 1 Site List.XLS	<p>Question:</p> <p>In the event that the equipment is connected to “Existing DSL” please confirm that the Network Service Delivery point and back-haul networking e.g. VPN etc will be provided by others.</p>	
			<p>Answer:</p> <p>Yes, they will be provided by others.</p>	13/06/2019
13	06/06/2019	Service information SI310, Installation	<p>Question:</p> <p>The term “dropper cable” is unclear but we think it refers to the service cable which is normally fitted in-line when servicing a trolley mast mounted camera, please can this be confirmed? If this is correct please clarify how many of these cables will be required for example say 3 per area team ?</p>	

			<p><u>Answer:</u></p> <p>The supplier shall provide 10m of power and communications (if required) cable for each camera. Other site arrangements (ducting, chambers, additional power cables) are the responsibility of the Area Teams.</p>	13/06/2019			
14	06/06/2019	Tranche 1 Site List.XLS	<p><u>Question:</u></p> <p>Mast/Root Cable lengths are not identified. As site layouts are not standard Highways England, please could we have some guidance?</p>				
			<p><u>Answer:</u></p> <p>The supplier shall provide 10m of power and communications (if required) cable for each camera. Other site arrangements (ducting, chambers, additional power cables) are the responsibility of the Area Teams.</p>	13/06/2019			
15	06/06/2019	Service information, SI115, paras 1 and 3	<p><u>Question:</u></p> <p>The dates associated with Warranty seem to conflict: Para 1 states 3 years, Para 3 specifies a fixed date of 31st March. Please clarify.</p>				
			<p><u>Answer:</u></p> <p>The warranty for each camera will run from the date of successful SAT to 31st March 2023. This recognises the phased installation and testing of new cameras but standardises the end date to enable efficient handover into RTMC maintenance or alternative maintenance regime post warranty.</p>	13/06/2019			
16	06/06/2019	Service information, SI235	<p><u>Question:</u></p> <p>SI 235 states that the TVOS will be installed on new structures, but the spreadsheet "Tranche 1 Site List.XLS" shows a range of potential options as shown below, some of which indicate that additional mounting hardware items are needed, e.g. brackets. Please clarify whether these brackets need to be allowed for the pricing.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><i>Camera fitted to existing dedicated CCTV mask arm post.</i></td> </tr> <tr> <td style="padding: 2px;"><i>Camera fitted to existing traffic signal post via extension arm bracket.</i></td> </tr> <tr> <td style="padding: 2px;"><i>Camera fitted to new 6m independent SAPA post</i></td> </tr> </table>	<i>Camera fitted to existing dedicated CCTV mask arm post.</i>	<i>Camera fitted to existing traffic signal post via extension arm bracket.</i>	<i>Camera fitted to new 6m independent SAPA post</i>	
<i>Camera fitted to existing dedicated CCTV mask arm post.</i>							
<i>Camera fitted to existing traffic signal post via extension arm bracket.</i>							
<i>Camera fitted to new 6m independent SAPA post</i>							

			<p><i>via extension arm bracket.</i></p> <p><i>Camera fitted to new 6m SAPA independent post via extension arm bracket. A second camera is fitted to an existing traffic signal post via an extension arm bracket.</i></p> <p><i>Camera fitted to new 6m SAPA post via extension arm bracket. Existing pedestrian push button to be transferred to new post.</i></p> <p><i>Camera fitted to new 6m SAPA post via extension arm bracket. Existing pedestrian push button, detectors and traffic signal head to be transferred to new post.</i></p> <p><i>Camera fitted to new 6m SAPA posts via extension arm bracket.</i></p> <p><i>Camera fitted to new 8m independent SAPA post via extension arm bracket.</i></p> <p><i>Camera fitted to new SAPA post via extension arm bracket.</i></p> <p><i>Camera fitted to new SAPA post via extension arm bracket. Existing pedestrian bush button, traffic signal head, and detectors to be transferred to new post.</i></p> <p><i>CCTV camera mounted using tabular 600mm long, 89mm diameter existing bridge deck bracket.</i></p> <p><i>Dedicated CCTV column</i></p> <p><i>Magnetometer equipment pole</i></p> <p><i>New pole</i></p> <p><i>Signal head</i></p> <p><i>Signal head</i></p> <p><i>Traffic signal pole</i></p>	
			<p><u>Answer:</u></p> <p>Please refer to I08 (page 24). Yes, brackets are to be included in the pricing as per Tranche 1 Site List.xls, fixing arrangement column (as detailed above).</p>	13/06/2019
17	06/06/2019	Tranche 1 Site List.XLS	<p><u>Question:</u></p> <p>According to the deployment spreadsheet, SAPA passively safe posts are being employed and a</p>	

			bracket and the camera are being fixed to the posts, elsewhere there is a requirement for a MCE2536 cable arrangement (which is not designed for passively safe breakaway electrical protection). Please advise.	
			<u>Answer:</u> MCE2536 should be used where applicable for non-SAPA sites.	13/06/2019
18	06/06/2019	Service information SI310, Acceptance Testing	<u>Question:</u> A05 refers to "FMS" this is presumed to be the Fault Management System, please more explicit detail be provided.	
			<u>Answer:</u> The ONVIF cameras will report faults using SNMP (further information can be found in the MCE2625 spec). The HEVID includes SNMP fault management capabilities. Highways England are introducing the Technology Operations Centre (TOC) for monitoring and management of equipment alarms, faults, etc. The TOC will do this via the Enterprise Service Bus, to which the HEVID will connect.	13/06/2019
19	06/06/2019	Request for Quotation, para 56	<u>Question:</u> Para 56 states " <i>The fourth stage is verification of the highest scoring bidder's Quality Submission, Compliance Matrix responses and/or Financial Submission</i> " This is the only part of the submission where a compliance matrix is referenced, please can this be clarified and if a matrix is needed please could guidance be provided on its contents.	
			<u>Answer:</u> <u>Tender Amendment 2 – TA2</u> This is an error as a Compliance matrix is not being used for this tender exercise, so the reference will be removed. Therefore, please see the new version of the RfQ which has been uploaded to the Tender Amendment folder on Bravo: TMTii 56 – Request for Quotation (RFQ) V2 – TA2	06/06/2019
20	06/06/2019	Quotation, paras 35 to 40	<u>Question:</u> The RFQ paras 35 to 40 identify page limits for the Methodology Statement (25) and the Contractor Plan (10) but there is no page allocations provided for the Risk Register and CVs. Please could	

			Highways England clarify what if any page limit there is for the Risk Register and/or the CVs.	
			<p><u>Answer:</u></p> <p>The provided CV's must not exceed 2 sides of A4. The Risk Register has no page limit restrictions.</p>	06/06/2019
21	07/06/19	SI Page 28	<p><u>Question:</u></p> <p>On Page 28 of the SI it is stated that in Area 3 we should “assume the expected construction dates for works is between 16th September 2019 and 18th October 2019”.</p> <p>It is not clear what the “Construction works” refers to as there is some work occurring to install mast, please can you clarify whether it is expected that in Area 3 the cameras will be installed and commissioned during this period or after these works have been completed.</p> <p>Could similar indicative installation dates be provided for Area 4/5 so that we can programme and allocate resources accurately.</p>	
			<p><u>Answer:</u></p> <p>Yes, assume the stated construction dates as the window for camera installations. Indicative dates are as follows:</p> <ul style="list-style-type: none"> • <i>Area 3 mid-October – end November</i> • <i>Area 4 early November – mid January</i> • <i>Area 5 end November – end January</i> <p>Currently, it is expected cameras will be installed during the construction period and this element of the programme will be confirmed in conjunction with the appointed supplier. Dates are of course subject to change due to external factors and other programme dependencies.</p> <p>“Construction works” refers to all necessary site works performed by the Area Team to enable the supplier to attend site to fit the bracket and camera to on-site infrastructure and connect the camera to power and communications.</p> <p>Please see page 28 for the requirements for undertaking camera installations with the Area Teams.</p> <p>For Area 4 pricing purposes, suppliers should assume 1 camera installation per night though we expect there to be efficiencies achieved throughout the programme.</p>	13/06/2019

Questions asked after the Tender Question Deadline (10/06/19 14:00)
Note Highways England can't guarantee to answer these questions however will endeavour to do so

22	13/06/19	Service Information	<p><u>Question:</u></p> <p>The clause” During the warranty period the Contractor shall monitor the operation of the TVOS’ through the provided remote monitoring system and notify the RTM of any faults identified. The RMAS may not be in place at the beginning of the service”</p> <ul style="list-style-type: none"> • What is meant by 'may not be in place'? RMAS is a current service? • It should be noted that RMAS is not a fault monitoring service. • How is the camera supposed to interface with RMAS; currently no COTS camera will implement the TR2597A interface that RMAS requires? 	
			<p><u>Answer:</u></p> <p>For clarification of this clause; it is not expected nor a mandatory requirement for the supplier camera to interface with the RMAS service, although would have been considered beneficial. It is noted that no COTS camera currently provides a TR2597A interface.</p>	
23			<p><u>Highways England Statement & Tender Deadline Extension</u></p> <p>Highways England submits the following statements for clarification. In order to maximise the benefit of this clarification, we are also extending the tender return deadline by one week.</p> <p><u>New Tender Return Deadline: 14:00 Friday 28 June</u></p> <ul style="list-style-type: none"> • The current tender is not seeking to replicate an existing mainline TVOS camera installation, suppliers should instead consider traffic monitoring cameras already deployed by a host of local highway authorities and other agencies as installed on traffic signal heads, low level poles and other roadside infrastructure. • Suppliers should provide and price their offer based on the specification and requirements listed in the ITT documents and not assume compliance or direct comparison with existing HE mainline TVOS provision as a precursor to bidding. • The current tender is seeking suitable market provision of a non-mainline traffic monitoring camera to provide RCC operators and other stakeholders with network visibility of congestion and an overview of traffic conditions particularly at junctions • The current tender is seeking to establish a new ONVIF compliant traffic monitoring camera for use at non mainline locations as listed in the tender documents, and with the primary purpose of 	18/06/2019

supporting network management interventions to improve junction and congestion management. If successful the ENCP could be a precursor to broader rollout and deployment beyond the south East Region.

- The cameras will not be required to operate on a 24/7 basis – they should be always available to RCC operators but not always on.
- Highways England is moving towards future CCTV provision based on ONVIF standards so a commercial off the shelf solution is expected not predicated by previous or existing TVOS supply to Highways England
- The tender documents only list MCE documents MCE2625 and MCE1126 as a reference and not as being something the *Supplier* has to adhere to.
- No intentional or material reference is made to HE documents MCE2245 & MCE2241 and therefore not relevant to the cameras required for this tender.
- It is not necessary for any possible camera to fulfil all existing HE compliant standards; other functionalities take precedence (as stated in the tender documents) to deliver a lower cost non-mainline solution.
- For cost and technical reasons 4G communications are to be utilised. All aspects of SIM provision, communications and data contracts are to be managed by Highways England and the ENCP.
- The camera supplier will not be penalised for a deterioration in service caused by issues with the communications network or network provider or external factors such as prevailing weather conditions
- The camera supplier will supply, install and test cameras as specified. They are not responsible for site preparation and design, determining the location of cameras, the provision of structures for which cameras will be fitted to or the power and communications supply.
- The final ENCP programme of works and camera installation schedule is yet to be confirmed and is subject to change. It remains the intention to install 60—70 cameras in this financial year though this will only be determined and confirmed following award of the contract and is subject to the successful and timely completion of activities by the area teams 3,4 and 5. It is the intention to work with the camera supplier to derive an achievable programme.
- Task Orders will not be issued for individual cameras. In line with the point above, it is our intention to deliver the ENCP in a cost effective and efficient way. This will involve batch ordering, installation and testing of cameras wherever possible and co-ordination of camera supplier activities with the Area Teams during their construction phases to share traffic management and site access.
- The camera supplier will be responsible for camera warranty as specified but has no responsibility to attend site to provide an ongoing maintenance service for cameras – this will be conducted by the RTMC.
- The camera supplier will not be responsible for resolving any conflict that may arise with other installed assets.

24	27/06/19	Price List	<u>Question:</u> The Price List Energy Cost tab shows 250 units rather than 67 please correct	
			<u>Answer:</u> <u>Tender Amendment 3 – TA3</u> The Price List has been corrected. Please see 'TMTii 56 Price List V2' in the tender amendment folder on Bravo	28/06/19