Call for tenders' details

Title: Design and Installation of a Photovoltaic Array and Ancillary Equipment for New Accommodation Building, Koulikoro Training Camp- EU Training Mission, MALI

Start date: 07/06/2019

Time limit for receipt of tenders: 19/08/2019

Contracting authority: Council of the European Union

Status: Closed

Call for tenders question list

#	Submission date	Publication date	Question subject	Question	Answer
1	10/06/2019 12:02	19/06/2019 11:39	Request for clarification(1)	Our Technical Department have submitted the following request fro clarifications regarding the opportunity 2019-OJS109-264183 1) Is the camp connected to the Koulikoro network? We would be glad if you can clarify us if we have to include a team that manages the 3 sources of energy (grid, group and photovoltaic) or two (group and photovoltaic)? 2) With the purpose of integrating the photovoltaic, Would it be possible to receive from your side more details/information regarding the current generator and its switchboard? 3) It will be great if we can obtain more information regarding the available space for inverters and panels in the room that appears on the tender docs as the chosen space to locate the equipment. Is thereWe would be very grateful if you can forward us the blueprints regarding the aforementioned room, at least have its measures. 4) We would like to receive a clarification regarding the maximum weight that can be borne by a simple folded sheet (not a sandwich panel), where we must place the PV panels. We are wondering if	**19/06/2019** 1) The power generated supply from the TGBT powers the EUTM buildings on the base and, consequently, the base generators power these buildings. The building in which the solar panels will be installed will be electrically powered by the generators and by the solar panels. However,since there are buildings inside the base connected to Koulikoro's general electric grid, the installation should be prepared in case in the future its connection to the general electric grid is required. 2) The current power plant of the base is being renovated. The future installation, which is expected to be operational during the month of July, will be composed of 3 new diesel generators of 500 kVA, 400V, 50 Hz with the possibility of working in a synchronized way. The electrical production is distributed to the different buildings of the EUTM through a Low-tension distribution panel. 3) Please see the photos Mali 1 and Mali 2 uploaded to the documents library. 4)The basic minimum permissible operating load of the building structure (for the floor) is 250 kg/m². The installation of photo-voltaic panels means overloading; it is therefore necessary that a study be done by the tenderer to check the

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				the PV panels. We are wondering if it has been calculated to support the weight of a person, for assembly, and by extension, to support the PV panels and structure. 5)Distance between ridges (folds) of the sheets where the modules would be supported. 6) Clarify that if the fixing system would be a structure screwed to the plate/sheet. 7) Once the warranty and the after sales services elapse (one year as per tender docs), we understand that EUTM will have the need of spare parts at some point. Would you like us to quote separately a list of spare parts ? Will you release a second tender for this matter at some point? 8) The solar inverters that have already been installed belongs to a brand called SMA. Could you be so kind providing us with the model number?	done by the tenderer to check the resistance of the roof. Information about the metal structure supporting the roof: - Trusses made of 40 x 40 galvanized square tubes spaced 2.40 m placed on the KC-20. - Purlins same material: average center distance approx. 60 cm, - Profile sheet which must be 75 hundredths, - Two sides with a slope of about 10%. Please see the photos Mali 3 and Mali 4 uploaded to the documents library. 5) Roof configuration explained in the answer to question number 4(four). **19/06/2019** 6)There is no single solution to physically connect the photovoltaic (PV) solar panels to the roof of the building. Consequently, it is up to the tenderer to decide the system that provides the appropriate physical connection of the photovoltaic modules to the roof of the building,bearing in mind that the solution chosen must always comply with those set out in point 3.2 (Module Mounting Systems) of the technical specifications document associated with this tender. The tenderer, through the documents presented with his technical proposal, must demonstrate that the chosen fixing system is compatible with the structure of the building without compromising the safety of the same, in addition to

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					safety of the same, in addition to demonstrating compliance with the other specifications set out in point 3.2 (Module Mounting Systems). 7) The object of this tender is the installation of a photovoltaic array and ancillary equipment, consequently, the maintenance of the equipment beyond the warranty established for this file is excluded from the object of the same. Therefore, there is no inconvenience in receiving a valued list of recommended spare parts as complementary technical information to the one requested in this bid, bearing in mind that the same will not be the object of evaluation of the present file, since it is excluded from the object of the same one. 8) Please see the photos Mali 5 and Mali 6 uploaded to the documents library.

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2	12/06/2019 13:26	19/06/2019 13:41	Asking for Clarification	You have stated in the tender document that the minimum system output needed is 80kWp while you have a roof area of about 780m2, which is enough for more than a 100kWp solar PV installation. How will it be the evaluation if we provide a solar PV to cover up the whole roof, which could be more than a 100kW PV capacity, which greatly will affect the system price if we are bidding with a company submitting only 80kWp of PV capacity?	**19/06/2019** Section 5.2 of the technical specifications shows the scoring assessment matrix that will be applied to the process. It shows that the higher the total system peak power, the higher the score obtained in section 5.2.2, while the total price is considered in section 5.2.1. Consequently, the tenderer has to make a balance between one section and another, in addition to considering the other aspects, in order to obtain the best final score.

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3	14/06/2019 14:09	19/06/2019 16:49	Request for clarification(1/2).	Question (1) Technical Specifications - Page 12 - Section 3.2 Para.#3 &Para.#5, 1st bullet point. Can you confirm as per below?: a) Module mounting system fabricated either in stainless steel or anodised aluminium. b) Supporting structures materials shall be aluminium or hot dipped galvanised steel. Question (2) Technical Specifications - Page 11 - Section 3.1 .Photovoltaic Modules- Para.#4 4th bullet point. Regarding the STC power measurement, our technical department would like to inform you that in order to obtain the it equal or above 93% of the nominal power must be done in a controlled environment like a laboratory. The current and future local environmental conditions will distort the measurements. We offer to provide a statement from our company and our manufacturer confirming that we comply with the above mentioned requirement in a controlled environment as stated in their technical data sheets. Question (3) Technical Specifications Page 6 - Section 1.7 .Description of building - Roof Area. Could you be so kind confirming us that the total roof area	**19/06/2019** Answer (1) Any of the materials used, whether aluminium or steel, must be treated in such a way as to ensure protection against corrosion due to the climatic conditions present in the area, as requested in section 3.2 of the technical specifications associated with this tender. Of all this, the tenderer will have to justify this resistance by means of the obligatory certificates of the manufacturer of the material. Answer (2) : As established in point 3.1 (Photovoltaic Modules) of the technical specifications associated with this tender: “Solar PV modules shall be certified to the appropriate European Standards and shall be CE marked. Modules shall be provided with datasheets that state all relevant test parameters under the standard test conditions (STC) defined by the relevant standard”. Furthermore, in the same section it is established that: “The Photovoltaic modules, laminates and associated external equipment shall be suitable for operation within an ambient temperature range of -40°C to +85°C (…)”. Therefore, when it is said that: “The STC power measured in the input of each inverter must be equal or above 93% of the nominal power (…)” it must be understood that the tenderer must consider all possible losses so that

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				confirming us that the total roof area is 780m2? The first picture attached on section 1.6 shows an area of 309m2 confuses the aforementioned information.	consider all possible losses so that this STC power is obtained in the real working conditions of the installation. Answer (3) : It is planned to install solar panels on the surface of the roof: • Not including overhangs: 370 m² (approximately). It is therefore on these 370 m² of roof that the solar panels will be installed, • Including overhangs: 435 m². Please see the photo uploaded to the documents library. **19/06/2019** Answer (4): The base load on a grid is the minimum level of demand on an electrical grid over a span of time, for example, “during the weekend peak of a summer demand”. That is, the base load has been determined at a time of strong energy demand because in the summer there is an increase in electricity consumption because the high ambient temperatures reached increases electricity consumption due to the widespread use of refrigeration equipment. This data should be taken as a guideline in relation to the electricity demand of the base. In addition, it is clarified that the electricity generation produced by the PV plates will be consumed inside the base. Answer (5): The formula presented is consistent with The Standard Assessment Procedure (SAP) that is the methodology used

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					(SAP) that is the methodology used by the United Kingdom Government to assess and compare the energy and environmental performance of dwellings. Answer (6) : The data "maximum wind speed (m/s)" appearing on the mentioned page of the technical specifications associated with this tender is correct.

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4	14/06/2019 14:09	19/06/2019 17:23	Request for clarification (2/2)	Question (4) Technical Specifications Page 9 - Section 12.1 Integration of PV power output into Electrical Grid. - Paragraph 5. "The base load for the Camp was calculated during the weekend at the peak of summer demand with the lowest consumption in line. All production is planned to be consumed on site within the Training Camp. Base Load: • KTC– 500kWh " Question- Can you clarify the above mentioned phrase? Question (5) Technical Specifications Page 18 - Section 4.3 Proving of PV output and Commissioning - Paragraph 3 - Formula. Our technical team states that the formula proposed is wrong. Can you clarify it? We offer to provide you the most common formula used on the western market to calculate the Output. Question (6) Technical Specifications Page 19 - Table 1 PV Panels States Maximum wind speed(m/s). We suggest as the right measurement method, "wind pressure".	**19/06/2019** Please see the answers already published.

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5	21/06/2019 23:40	24/06/2019 17:42	Questions Regarding “Call for tenders 4M-12/2019/EUTM-MALI/MHQ/J8”	1.7 Description of Building Please provide detailed roof dimensions for building 77. Is ti 780m² or 435m² as it appears on a question-answer you gave. What is the exact roof of the overhang area? 3.8 Electrical Protection Please, we require a more detailed description of the earthing kits in order to complete this tender. 3.9 System Monitoring We are unclear of the exact meaning and what is required here. The selected inverter will have detailed monitoring capability. We can provide product documentation on the inverter monitoring/data capability with our submission so that you can verify that it is inline with your plans for future BEMS interconnection? 3.9.1 Metering A Measuring Instruments Device (MID) approved generation meter shall be fitted to verify system generation. The inverter unit must be fitted with a modem which is capable of receiving a SIM card to allow transfer of data.“ We do not understand how this is different from conventional “PV system monitoring”. Please let us know if there is more to consider than the inverter’s monitoring capability with	**24/06/2019** Please consider the document attached. **25/06/2019** Please see the documents uploaded in the documents library for answers to the questions n° 5.

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				inverter’s monitoring capability with regard to metering.	
6	24/06/2019 18:43	25/06/2019 15:42	Asking where to access the documents	In your answers for different questions, you replied "see photos uploaded to the documents library". But we couldn't get any photos uploaded. Again in your reply for question today, which we were also about to ask regarding your roof surface area, you have replies "please consider the document attached". Would you please help us get your files if they are uploaded in a different location than the documents library? If you still uploaded them in the documents library, could your technical team help us in getting the files because we also find six documents of the tender document that was there from the very beginning? Thanks	**25/06/2019** Please see the documents uploaded in the documents library for answers to the questions n° 5.

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7	26/06/2019 00:04	01/07/2019 10:05	Appointment for a site visit	We are intending to send some people on site to assess the Roof and building 77. Which date and time can we send our representative?	**01/07/2019** For any information regarding the organization of the visit please refer to the document "Invitation to tender" version 001 published in the documents library. **15/07/2019** Please see the point IV.1. Visit of the "INVITATION TO TENDER" 001 version, where is mentionned: "1. Visit A visit to the contracting authority's premises will be organised to provide information required by tenderers to prepare their offers. Tenderers will be offered a choice of dates for this visit. Tenderers are invited to a site survey between 15th and 28th July 2019 To arrange the visit, they shall contact: Point of contact in Mali: Head J8 EUTM Mali Telephone Mobile: +223 79997126 Mobile 2: +223 83150454 (Whatsapp Possible) Email: mhq.j8@eutmmali.eu MFHQ EUTM Mali Hotel AZALAI Nord-Sud
8	05/07/2019 09:11	10/07/2019 11:56	Corrigendum	As per Corrgendum, the deadline of this tender has been extended until 19/08/19, Could you be so kind confirming us that change? The portal is still stating the deadline on 12/07/19. Thank you very much for everything.	**10/07/2019** Indeed, as per corrigendum the deadline for submission a tender is 19/08/2019. Regards

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9	08/07/2019 19:03	15/07/2019 14:34	More detailed pieces of information	1)- What is the thickness of the 40x40 roof purlins? 2)- We are planning to send someone on the site to assess the roof. What actions are required to get authorizations?	**15/07/2019** Answer 1) - The technical information available on the metal structure supporting the roof is as follows: - Trusses made of 40 x 40 galvanized square tubes spaced 2.40 m placed on the KC-20. - Purlins same material: average center distance approx. 60 cm, - Profile sheet which must be 75 hundredths, - Two sides with a slope of about 10%. In any case, the tenderer must take into account that the basic minimum permissible operating load of the building structure (for the floor) is 250 kg/m². The installation of photo-voltaic panels means overloading; it is therefore necessary that a study be done by the tenderer to check the resistance of the roof. Answer 2) - The procedure to carry out the Site Survey is published on the EU contracting platform. (please see point IV.1 Visit of the" INVITATION TO TENDER" 001 version where is mentionned the following sentence" "A visit to the contracting authority's premises will be organised to provide information required by tenderers to prepare their offers. Tenderers will be offered a choice of dates for this visit. Tenderers are invited to a site survey between 15th and 28th July 2019 To arrange the visit, they shall contact: Point of contact in Mali: Head J8

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					Point of contact in Mali: Head J8 EUTM Mali Telephone Mobile: +223 79997126 Mobile 2: +223 83150454 (Whatsapp Possible) Email: mhq.j8@eutmmali.eu MFHQ EUTM Mali Hotel AZALAI Nord-Sud
10	01/07/2019 17:14	15/07/2019 14:38	Clarity in your photos uploaded	The dimension which you have stated in the file "EN-Total+roof+area+m2” can not be seen at all. Can you please make it clear just like you did for photo number 2, which you have written by marker?	**15/07/2019** It is planned to install solar panels on the surface of the roof: • Not including overhangs: 370 m² (approximately). It is therefore on these 370 m² of roof that the solar panels will be installed, • Including overhangs: 435 m². In addition, tenderers should keep in mind that the containers that make up the building are 20 ft standard containers and the measure of the corridor that separates the two rows of containers is approximately two (2) meters. It is also recalled that according to point 1.1 (Familiarization with the Site): “The Contractor will be deemed to have examined the site to ascertain the extent of the alterations required to the building to facilitate the PV installation, the conditions under which the works will be undertaken and the nature of the structure being worked upon”.

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11	26/06/2019 18:06	15/07/2019 14:52	Building 77 dimensions	The dimensions on the document entitled "EN-Total+roof+area+m2.pdf" are difficult to read. Can you release a version of this document which shows the dimensions more clearly?	**15/07/2019** It is planned to install solar panels on the surface of the roof: • Not including overhangs: 370 m² (approximately). It is therefore on these 370 m² of roof that the solar panels will be installed, • Including overhangs: 435 m². In addition, tenderers should keep in mind that the containers that make up the building are 20 ft standard containers and the measure of the corridor that separates the two rows of containers is approximately two (2) meters. It is also recalled that according to point 1.1 (Familiarization with the Site): “The Contractor will be deemed to have examined the site to ascertain the extent of the alterations required to the building to facilitate the PV installation, the conditions under which the works will be undertaken and the nature of the structure being worked upon”

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12	28/06/2019 10:54	16/07/2019 10:13	Request for clarification (28/06/19)	Dear Contracting Authority, Thank you very much for your time and support in advance. Our team has some doubts that have arisen when they were making the design of the plant and inverters that they did not clearly seen solved either in the clarifications, or in the specifications. Kindly have a look of their questions as per below: 1) Must the photovoltaic plant has to be prepared to work in an isolated way? That is to say, without the generators being working, as well as not connected to the public electricity network. The cost varies very considerably if we must mount a system that can work in isolation. 2) In case it has to work in isolation, what maximum power will the generators be able to provider to the network of the camp? 500 KVA, 1000 KVA, 1500 KVA? 3) Should we install an electrical panel or system to govern the commutation between photovoltaic, generators and group? We don't see it appearing clearly in the specifications. 4) Regarding the 3D contour blueprint attached, we are not able to see the levels. Would it be possible for you to upload one	**16/07/2019** 1) In point 1.0 (Introduction) of the Technical Specifications associated to the present tender, the following is explained: “It is proposed to install a Solar Photovoltaic (PV) array at New Accommodation Block, KTC, Mali. The installation shall be a building integrated and grid-connected system and operate in parallel with the generator network. If the Solar PV supply is less than the demand, the generators supply the balance to ensure security of supply”. Consequently, what is expected of the installation is that the electrical demand of the building in which the PV panels are installed is satisfied by this installation and if the demand exceeds the production capacity achieved by the PV panels, the rest of the electrical installation of the base covers the lack of electricity. 2) Please, have a look at the answer given in the previous question. 3) It is the tenderer's responsibility to propose how the commutation between the new PV panel installation and the rest of the base's electrical installation will be governed. The tenderer must install the necessary interfaces to make this possible (either isolated or integrated to other elements of the current electrical network without interfering with its

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				it be possible for you to upload one with higher quality? Again, thank you very much for everything.	network without interfering with its operation). 4) No other photographs available. However, in order to make the necessary calculations, tenderers should bear in mind that it is planned to install solar panels on the surface of the roof: • Not including overhangs: 370 m² (approximately). It is therefore on these 370 m² of roof that the solar panels will be installed, • Including overhangs: 435 m². In addition, tenderers should keep in mind that the containers that make up the building are 20 ft standard containers and the measure of the corridor that separates the two rows of containers is approximately two (2) meters.

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13	24/06/2019 22:20	16/07/2019 13:32	Call for tenders 4M-12/2019/EUTM-MALI/MHQ/J8	Section 3.1 of the Technical Specifications We found the following text: "Where DC cables from connection boxes to inverter input must run in underground tubes the manholes will be separated by 15 metres maximum. The extremes of the tubes must be sealed once the tubes and cables are fully laid." 1) Is a trench required for this project? 1.7 Description of building. You provided the dimensions of the purlin and truss tubes is 40x40. 2) What is the thickness of the galvanized 40x40 square tubing in the roof structure? 1.7 Description of building 3) Is it the bidder's responsibility to conduct a structural evaluation of the roof?	**16/07/2019** The technical information available on the metal structure supporting the roof is as follows: - Trusses made of 40 x 40 galvanized square tubes spaced 2.40 m placed on the KC-20. - Purlins same material: average center distance approx. 60 cm, - Profile sheet which must be 75 hundredths, - Two sides with a slope of about 10%. In any case, the tenderer must take into account that the basic minimum permissible operating load of the building structure (for the floor) is 250 kg/m². The installation of photo-voltaic panels means overloading; it is therefore necessary that a study be done by the tenderer to check the resistance of the roof.

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14	24/07/2019 17:43	25/07/2019 12:49	Document: Tender Administrative Specifications.pdf. Section: III Participation in this tender procedure.	Dear Contracting Authority, Could you be so kind confirming us the following statement? "The subcontracting of all or part of the works defined for this contract is not allowed". We have been operating in Mali with a compliant subcontractor. In case of the aforementioned statement must be enforced, will it be possible to submit our proposal with a joint venture agreement between both parties that in case of being awarded with the tender, we will proceed oficialising it as per local regulations. Thank you very much for your support.	**25/07/2019** Answer: Sub-contracting is not allowed, as EUTM Mali needs to get into direct contractual relation to the performing enterprise(s). Answer: Yes, this joint venture must be founded on the basis of the law of eligible states and must name a plenipotary representative able to contract on behalf of all of the enterprises.

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15	26/07/2019 16:12	03/08/2019 08:33	Mesures précises de la toiture	Bonjour, Dans le soucis de vous faire une offre la plus sérieuse possible, il me faudrait les mesures précises du toit du bâtiment afin de simuler le nombre de modules qu'on peut installer. En effet, votre bâtiment étant constitué de 12 conteneurs 20 pieds en long et de 2 rangées de conteneurs séparées de 2m au milieu, il devrait mesurer 29,256m sur 14,116m. Or ces dimensions sont en contradiction avec les 370 m² de toitures décrites dans le dossier d'appel d'offre. Est-ce que vous pouvez préciser ce point?	**03/08/2019** In the question asked by the tenderer the stated measurements are achieved using the outside measurements of a standard 20 foot container. In this sense, it should be noted that to achieve the final result, the containers are joined together, so that the external measurement of the container may be slightly reduced. Therefore, if the bidder takes the internal measurements of the standard 20 foot container and carries out the calculation again, it will obtain a measurement that is more in line with what has been indicated (as a suggestion, it could be taken as the most unfavourable situation for the calculation of the project). In any case, it should be noted that the measure of 370 m2 has always been given as approximate and it is the responsibility of the tenderer to proceed to the verification of the measures he believes necessary to prepare his project. It is also recalled that according to point 1.1 (Familiarization with the Site): “The Contractor will be deemed to have examined the site to ascertain the extent of the alterations required to the building to facilitate the PV installation, the conditions under which the works will be undertaken and the nature of the structure being

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