

## REPLY to Clarification No. 01 to EOI of CONSTRUCTION OF 2 ×100 MW FLOATING SOLAR PHOTOVOLTAIC (PV) POWER PLANT IN THE WATER SURFACE OF SAMANALAWEWA RESERVOIR

<i>No</i>	<i>Sec</i>	<i>Chapter No</i>	<i>Clause No</i>	<i>Bid Specification</i>	<i>Bidders Query</i>	<i>CEB Reply</i>
1					<p>According to your invitation, two 100 MW Solar Photovoltaic (PV) power plants are to be built in the said reservoir as two independent projects. That means each project proponent must submit a proposal for one 100 MW solar PV power plant with a suitable capacity high- voltage transformer, switch gear, control, and protection system and a single-circuit overhead 220 kV transmission line up to the interconnection point of the CEB grid/switching station. In this case, is it correct that the project proponent performs EIA or IEE only for the 100 MW solar PV power plant and interconnection transmission line?</p>	<p>Your understanding is correct. The project proponent who builds the first 100MW shall also construct the Transmission Facility.</p>
2					<p>Whether it is located in a national nature reserve; the cultural relics department needs to determine whether the underground or underwater area involved in the site involves cultural relics protection; the environmental protection department needs to confirm whether the power station built at the site meets the environmental impact assessment requirements; the water conservancy department needs to confirm that the site meets its water intake, drainage requirements</p>	<p>Project proponent's scope. CEB will facilitate only.</p>
<p>CONSTRUCTION OF 2 ×100 MW FLOATING SOLAR PHOTOVOLTAIC (PV) POWER PLANT IN THE WATER SURFACE OF SAMANALAWEWA RESERVOIR ON LEAST COST BASIS</p>					<p><b>CLARIFICATION No. 01</b></p>	

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3					A new 220 kV switching station must be constructed to transmit power generated from the solar PV power plants to the national grid, according to the conceptual connection arrangement proposed by CEB. We hope this switching station will be a property of CEB, and CEB will construct this switching station and carry out the necessary modifications to the existing 220kV Polpitiya Hambantota transmission line.	The project proponent who builds the first 100MW shall also construct the Transmission Facility including system modifications.
4					CEB must provide technical specifications for the switching station and the details of changes that need to be made to the current 220 kV double circuit transmission line between Polpitya and Hambantota if CEB wants one of the project proponents to build this switching station and make modifications to the existing transmission line. Also, please let us know the location decided by the CEB to construct this new 220 kV switching station as well as the extent of land allocated to build this switching station.	The land is not allocated for the switching station. The transmission facility shown in the diagram is a conceptual drawing only. Project proponent shall find a land and build the switching station.
5					Confirm that the costs of the 220 kV transmission line, switching station, and modifications to the existing Polpitiya Hambantota 220 kV transmission line would be paid by CEB to the project proponent on a semi-annuity basis within an eight- or ten-year period. Kindly provide the type of security or payment guarantee that CEB may provide to satisfy the lenders if CEB defaults on payments.	The project proponent who builds the first 100MW shall also construct the Transmission Facility including system modifications. No security is given other than the PPA.

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6					The EOI document states that the project proponent is responsible for augmentation of the Samanalawewa grid substation. However, the conceptual connection arrangements provided by CEB indicate that there will be no interconnection between the proposed solar power facilities and the Samanalawewa grid. Therefore, kindly outline the Samanalawewa grid substation augmentation Work that needs to be done.	Please refer the addendum issued.
7					<p>According to the EOI document, the project proponent who submits the substantially responsive least-cost proposal will be required to sign a Power Purchase Agreement (PPA) with CEB. Please let us know what kind of guarantee or commitment CEB will provide to satisfy the lenders if CEB defaults on payments .</p> <p>Please define the Samanalawewa reservoir water levels at given instants.</p> <p>a) Maximum water level maintain.  b) Minimum operating water level.  c) The water level of the reservoir to be maintained during the planned leak remediation during 2025.</p>	<p>The project proponent who builds the first 100MW shall also construct the Transmission Facility including system modifications. No security is given other than the PPA.</p> <p>Project Proponent shall carry out the detailed site survey including bathymetric study, Project site properties, geo-technical investigations etc. and shall apprise himself regarding information such water properties, depth of reservoir, variation in the depth of water reservoir, water flow rate, climatic conditions, requirement statutory approvals etc., before submitting the RFP. . Claims and objections due to ignorance of site condition will not be considered after submission of the RFP.</p> <p><b>The project proponent to carryout a comprehensive study and find the required information.</b> However, the average data only for the purpose of EOI for the query is as follow;</p> <p>a). 460m  b). 424m (Average data will be sent)  c). 410m (Average maximum only. Data will be sent)</p>

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8					<p>In the Invitation letter said for bid evaluation of price proposal will consider two parts as detail below,</p> <p>However, the letter also indicated that the cost of construction of grid interconnection including in Technical Proposal as below,</p> <p>so, the C part (breakup of the cost), shall put in technical proposal envelop or financial proposal envelop?</p>	Cost part is to be included in the financial proposal.
9					<p>Provide project location information (coordinate )</p> <p>if one project proponent can submit only one proposal for 100 MW capacity, and whether one project proponent can only bid one project or can submit proposal for both 100MW projects( different substations, hambantota and New Polpitiya)? if one project have many proposals and another project only few proposal, Is there any consideration of adjustment and how?</p>	<p>Site visit is arranged.</p> <p>No adjustment. The bids will be evaluated separately for each 100MW.</p>
10					<p>What is indicative time schedule for tender process after EOI process.? For example, how long CEB will announce short list companies, what time will issue RFP etc and what time will award the project?</p>	This will be notified later.
11					<p>Is there possibility that CEB direct negotiate with qualified companies.</p>	Competitive bidding only.

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12					The tariff for this project will be fixed dollar link tariff or rupee tariff. Will financial proposal (intended tariff) submit according to invitation be divided into two parts? one is capacity part and energy part, in which capacity part will be paid no matter whether the power offtake by CEB or not. and energy part will be paid according to amount of power generated and delivery to the grid, Whether our understanding is right?	The project proponent can bid in foreign currency and also LKR or both.  There is no capacity cost payment
13					Can you provide the draft of PPA and Implementation Agreement? Whether such PPA and IA is bankable?	Not available Now. It will be in the RFP phase.
14					Is there special tax incentive will consider in this project during construction and operation.	No decisions taken.
15					What is standards and specification of both technical and financial evaluation?	Standard CEB practice
16					Envelop 2 shall mark as "Price Proposal" or "Financial proposal"?	Only mark as "Financial proposal" or "Technical proposal"
17					What else approvals and license shall obtain from investor to invest, construct and operate this project.	Will be sent with RFP

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18					What is condition of main road and what distance from main road to the site is and how is the access road conditions.	Project proponent to find the details.
19					Altitude of Project site	Project proponent scope
20					Provide not more than 1 :2000 topographic map and inflection po111t coordinates (coordinate system and elevation)	Project proponent scope
21					<p>1 . Average weather conditions: temperature, sunshine hours, precipitation, wind speed (rose chart), atmospheric pressure, relative humidity etc .;</p> <p>2. Historical extreme weather conditions: the highest and lowest temperature, the maximum wind speed and direct ion, the number of thunderstorm days, and the average number of strong winds over the years ;</p> <p>3.Disaster weather data in the past 30 years: thunderstorms , flood etc;</p>	Project proponent scope
22					Are there tall mountains, hills, tall & big trees to have shadow on the site water surface	Project proponent scope
23					Changes in runoff velocity (water flow), water depth, and water level in the water area where the floating photovoltaic power plant site is located	Project proponent scope
24					whether it is located in a water source, whether it is located on a waterway, whether it is located in a flood conduction area, a flood detention area, or a flood discharge area	Project proponent scope
25					whether the project site located in a non-ecologically sensitive area and ,or a drinking water area and irrigation;	EIA is a part of project proponent's scope

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26					One Project proponent can submit only one proposal for 100MW capacity: Does this mean that one bidder cannot bid for 2 x 100MW capacity?	Please check the addendum. Any project proponent can bid for either one or two project units.
27					Construction of Transmission Line: Scope of work. Is this to be built for 100MW or 200MW	200MW. The line shall be 220 kV Single zebra Transmission Line.
28					Capacity enhancement of existing transmission line: What is this scope of work?	Not relevant. Please check the addendum.
29					Construction of new substation: Has the location been identified, will CEB offer the land.	Exact locations have not identified. However, prospective locations will be notified.
30					Augmentation of existing Samanalawewa GSS: what is the scope of work.	Not relevant. Please check the addendum.
31					Floating solar system's capacity to withstand complete reservoir drawdown: This is technically not possible. Should maintain a minimum water level.	Project proponent should have the ability.
32					Need to get minimum and maximum water level historical data from CEB and the annual variations.	Check clarification no.7

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33					Financial proposal expected financial proposal with breakup (capacity cost, energy cost etc.): Does capacity cost means capital cost. Asked for energy cost not energy price including profit margin.	Check the addendum. Energy cost means the unit cost delivered (price) up to the in and out connection of New polpitiya - Hambantota 220 kV Line.
34					Construction of Transmission Line: Scope of work. Is this to be built for 100 MW or 200MW	Evacuation of power for two units.
35					Capacity enhancement of existing transmission line: What is this scope of work.	Not relevant. Please check the addendum.
36					Construction of new substation: Has the location been identified, will CEB offer the land.	Not identified.
37					Augmentation of existing Samanalawewa GSS: what is the scope of work.	Not relevant. Please check the addendum.
38					Floating solar system's capacity to withstand complete reservoir drawdown: This is technically not possible. Should maintain a minimum water level.	Project proponent should have the ability.
39					Need to get minimum and maximum water level historical data from CEB and the annual variations.	Check clarification no.7

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40				<p>Further we would like to request following information related to the project</p> <p>Location coordinate of the allocated area of the reservoir to determine support angle, power generation forecast.          General layout of the usable water surface of the reservoir to lay out the PV field area.          The designed service life of the reservoir, and whether it can cover the required service life of this project?</p> <p>O Water depth, runoff volume (including seasonal and inter annual)</p> <p>changes in runoff volume), flow velocity, water level, precipitation and evaporation information, sand content, suspended sediment data, particle gradation data, water quality information, designed flood level, drainage capacity.          Bathymetry data of the reservoir.</p> <p>O A flood survey report if available.</p> <p>Topography, engineering geology, rock composition around the reservoir, and underwater topography, geology, and other data.          A detailed geological survey report if available .          Changes of wind speed and water level, severe weather conditions, Temperature information, Earthquake magnitude information</p>	Project proponent's scope.
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41					<p>A flood survey report if available.</p> <p>Topography, engineering geology, rock composition around the reservoir, and underwater topography, geology, and other data. A detailed geological survey report if available .</p> <p>Changes of wind speed and water level, severe weather conditions, Temperature information, Earthquake magnitude information</p>	Project proponent's scope.
43					Your time schedule and construction methods of the reservoir sealing works, size and routes of the operation boats;	This is supposed to be an EOI only and it is believed that the project proponents will find more information at the RFP process.
44					Data like meteorological information, transmission and grid stations is insufficient or unavailable as input to prepare the proposal. The pre-bid meeting and site visit date is very close to the submission deadline from which we have short time to comprehensively understand the site situation. Considering the limited time to prepare the proposal, we request your favorable grant to extend the submission deadline to January 31st 2024.	<p>The prospective locations of the grid substations will be notified later.</p> <p>This is supposed to be an EOI only and it is believed that the project proponents will find more information at the RFP process. There is no time extension decided.</p>

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45					Whether one proponent is limited to submit only one proposal for 100MW or have the flexibility to submit either 100MW or both proposals each for 100MW.	Both can be done.
46					According to common practice, the Employer is responsible for land acquisition for the substation and transmission lines. Please kindly confirm.	Project proponent's scope.
47					Whether the proponent could use the reservoir free of charge. Please kindly confirm.	Not decided yet.
48					<p><b>1. Meteorological Data</b></p> <p>(1)The main meteorological characteristics of the nearest meteorological station to the Site for 30 years.</p> <p>(2) Average monthly temperature , and the extreme maximum temperature, the extreme minimum temperature, the highest daytime temperature and the lowest temperature in the day for 20 years from nearest weather station to the proposed power station.</p> <p>(3) The number of continuous rainy days, the number of thunderstorms , hail times and other severe weather conditions in the past years for past 30 years from nearest weather station to the proposed power station.</p> <p>(4) Wind load: design basic wind pressure of 25 years and 50 years standard for the proposed site;</p>	Project proponent's scope.

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49					<p><b>2. Survey and Geological Data</b></p> <p>(1) Survey map of the reservoir in CAD and KML format</p> <p>(2) 1:500 digital topographic map and sections/profiles for the reservoir</p> <p>(3) Soil investigation report of adjacent existing structures or for the Samanalawewa HPP.</p>	Project proponent's scope.
50					<p><b>3. Reservoir Information and Data</b></p> <p>(1) Maximum historical water depth in m, historical maximum water level in m, historical minimum water level in m, normal water level in m, drawdown level due to leakage, water quality.</p> <p>(2) Extreme wave height m, extreme flow rate m/s, average flow rate m/s,</p>	Project proponent's scope.
51					<p><b>3. GS and Transmission Information</b></p> <p>(1) Wiring diagram of Samanalawewa GS, Hambantota GS and New Polpitiya GS</p> <p>(2) Report and study of proposed transmission line and interconnection system (including starting point, voltage level, capacity, conductor cross-section, proposed route, etc.); Meteorological data for the proposed transmission line route, such as wind speed ( 10m high 10 min average maximum design wind speed, extreme speed of 50 years and 30 years, horological conditions of the route);</p>	<p>1) Will be provided.</p> <p>2) , 3) and 4) Project proponent scope</p>

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52					(4) Preliminary geological data of the path area (including)topography,	
53					Financial proposal expected financial proposal with breakup (capacity cost, energy cost etc.): Does capacity cost means capital cost. Asked for energy cost not energy price including profit margin.	Pl check the addendum. Energy cost means the unit cost delivered (price) up to the Grid connection of In & Out arrangement of New polpitiya Hambantota 220 kV Line.