



ARES(2013)3186857

Belgrade, 04.10.2013

**CONTRACTING AUTHORITY'S CLARIFICATIONS No. 4**

**Improvement of air quality through reduction in dust emissions  
from thermal power plants Nikola Tesla, Unit A3 and Morava**

**Republic of Serbia**

**Publication reference EuropeAid/134187/C/WKS/RS**

No	Question	Answer
1	<p><b>Vol. 1 Sec. 3</b></p> <p>Tender Guarantee validity / Tender Guarantee 2 form / page 2</p> <p>Tender Guarantees for Lot 1 and Lot 2 should be valid until 31<sup>st</sup> October 2014. ( 1 year after the deadline for submitting tenders)-Please confirm.</p>	<p>Tender Guarantees for Lot 1 and Lot 2 should follow the validity requirements in article 15.3 of the Instructions to Tenderers (ITT) and the instructions in the template published together with the Tender Dossier (Volume I, Section 3).</p>
2	<p><b>Vol. 1 Sec. 1</b></p> <p>Economic and financial capacity of candidate</p> <p>Instructions to tenderers / Financial resources/the access to sufficient credit and other financial facilities / page 14</p> <p>In case of a Consortium participating in a tender, is a Letter of Intent proving that a Leader of Consortium has an access to a credit line and other financial facilities for Lot 1 in amount of EUR 2.5 million and EUR 1.3 million for Lot 2. valid for the duration of Contract, adequate proof?</p>	<p>A letter from a recognized bank issued in line with the requirements in ITT, article 12.2.A)b), i.e. showing availability specifically for the tendered contract of a "credit of at least EUR 2.5 million for the tenderer bidding for Lot 1, at least EUR 1.3 million for the tenderer bidding for Lot 2, and at least EUR 3.8 million for the tenderer bidding for both lots", may be considered appropriate to "demonstrate financial resources / the access to sufficient credit and other financial facilities to cover the required cash flow for the duration of the contract".</p>
3	<p><b>Vol. 2 Sec. 1</b></p> <p>Contract Agreement / Contract form/ page 4</p> <p>With reference to the wording that "VAT and other taxes shall not be paid on funds originating from EU funds", in case of a Consortium signing a Contract, does the exemption of payment of the VAT and other taxes refer to all members of Consortium, not only to the leader of Consortium?</p> <p>Will the Subcontractors on this Contract be exempted from the payment of the VAT and other taxes? Please clarify.</p>	<p>Please refer to the provisions of articles 14.1 and 21.2 of the Particular Conditions of contract (volume II, section 3).</p>
4	<p><b>Vol. 2 Sec. 4</b></p>	<p>The Parent Company guarantee should be issued by the parent company of any member of</p>

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No	Question	Answer
	<p>Parent Company Guarantee / Form of Parent Company Guarantee</p> <p>In case of a Consortium participating in a tender, should a Parent Company guarantee be issued by a Leader of consortium?</p>	<p>the consortium.</p>
<p><b>5</b></p>	<p><b>Volume 3: Employer's requirements</b></p> <p><b>Section 2: Particular design and process requirements</b></p> <p>Please complete mentioned parameters:</p> <p>For TENT A3:</p> <p style="padding-left: 20px;">Sulphur content in coal,</p> <p style="padding-left: 20px;">O<sub>2</sub> content in flue gas,</p> <p style="padding-left: 20px;">H<sub>2</sub>O content in flue gas</p> <p style="padding-left: 20px;">Pressure in front of ESP</p> <p>For TPP Morava:</p> <p style="padding-left: 20px;">O<sub>2</sub> content in flue gas,</p> <p style="padding-left: 20px;">H<sub>2</sub>O content in flue gas</p> <p style="padding-left: 20px;">Pressure in front of ESP</p>	<p>Sulphur total content is 0,6%</p> <p>The Beneficiary does not possess the full gas analysis of the Flue Gas entering ESP. The awarded Tenderer will have the possibility after the signature of the contract to perform the necessary investigation and measurements at the site in order to collect additional data considered by them as necessary for the design. Mandatory condition for such action will be that the operation of the Unit A3 is not jeopardized.</p> <p>The Beneficiary does not possess the full gas analysis of the Flue Gas entering ESP. The awarded Tenderer will have the possibility after the signature of the contract to perform the necessary investigation and measurements at the site in order to collect additional data considered by them as necessary for the design. Mandatory condition for such action will be that the operation of the Unit TEM is not jeopardized.</p>
<p><b>6</b></p>	<p><b>Vol.3: Employers requirements</b></p> <p><b>2.5.3 Flue gas characteristics</b></p> <p>Inform about actual raw gas <b>O2-concentration</b> in worst case operation in order to design clean gas concentration at standard conditions at 6% O<sub>2</sub></p>	<p>The Beneficiary does not possess the full gas analysis of the Flue Gas entering ESP. The awarded Tenderer will have the possibility after the signature of the contract to perform the necessary investigation and measurements at the site in order to collect additional data considered by them as necessary for the design. Mandatory condition for such action will be that the operation of the Unit A3 is not jeopardized.</p>
<p><b>7</b></p>	<p><b>Vol.3: Employers requirements</b></p> <p><b>2.5.3 Flue gas characteristics</b></p> <p>Inform about actual raw gas <b>H2O-concentration</b> in worst case operation in order to design clean gas concentration at standard conditions at 6% O<sub>2</sub></p>	<p>The Beneficiary does not possess the full gas analysis of the Flue Gas entering ESP. The awarded Tenderer will have the possibility after the signature of the contract to perform the necessary investigation and measurements at the site in order to collect additional data considered by them as necessary for the design. Mandatory condition for such action will be that the operation of the Unit A3 is not jeopardized.</p>
<p><b>8</b></p>	<p><b>Vol.3: Employers requirements</b></p> <p><b>2.5.3 Flue gas characteristics</b></p> <p>Inform if actual raw gas <b>dust-concentration max</b></p>	<p>No, it does not include soot blowing.</p>

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No	Question	Answer
	<p><b>57 g/Nm<sup>3</sup> at actual O<sub>2</sub>-concentration</b> includes soot blowing in order to design clean gas concentration at standard conditions at 6% O<sub>2</sub></p>	
<p align="center"><b>9</b></p>	<p><b>Vol.3: Employers requirements</b>  <b>2.5.3 Flue gas characteristics</b>                      Inform if 30 mg/Nm<sup>3</sup> shall also be achieved at outage of 1 HV transformer (n-1 operation)</p>	<p>In the case of outage of 1 (one) HV transformer (n-1 operation) it is not required to achieve 30mg/Nm<sup>3</sup>, however dust shall not exceed 60mg/Nm<sup>3</sup>. However contractor is obliged to secure operation of all installed TR sets</p>
<p align="center"><b>10</b></p>	<p><b>Vol.3: Employers requirements</b>  <b>2.5.3 Flue gas characteristics</b>                      Inform if actual raw gas <b>dust-concentration max 64 g/Nm<sup>3</sup> at 6 Vol% O<sub>2</sub>-concentration</b> includes soot blowing in order to design clean gas concentration at standard conditions at 6% O<sub>2</sub></p>	<p>No, it does not include soot blowing.</p>
<p align="center"><b>11</b></p>	<p><b>Vol.3: Employers requirements</b>  <b>2.5.3 Flue gas characteristics</b>                      Inform if 50 mg/Nm<sup>3</sup> shall also be achieved at outage of 1 HV transformer (n-1 operation)</p>	<p>In the case of outage of 1 (one) HV transformer (n-1 operation) it is not required to achieve 50mg/Nm<sup>3</sup>, however dust shall not exceed 100mg/Nm<sup>3</sup>. However contractor is obliged to secure operation of all installed TR sets</p>
<p align="center"><b>12</b></p>	<p><b>According to Clarifications No. 3; Question No. 3; 2)</b>                      You declare the Flue Gas Volume in Table 2.6 is shown for one ESP. The Flue Gas Volume in Section 2.5.3 per boiler. According to our calculation and using the provided drawings it cannot be right. The ESP should be designed twice as large as shown.                      Please check this position again and confirm the Flue Gas Volume in Table 2.6 is accepted as the Total Flue Gas Volume for one boiler.</p>	<p>In accordance with the Basic design, the design data are:                      Flue gas temperature ..... 170°C,                      Flue gas flow..... 2.020.000 Nm<sup>3</sup>/h wet gas,                      Dust concentration... 57g/Nm<sup>3</sup> dry gas, 6% O<sub>2</sub></p>
<p align="center"><b>13</b></p>	<p>Another indispensable technical parameter for ESP-sizing is the gas pressure entering ESP.                      Please let us know the inlet pressure at the inlet of the ESP for both locations</p>	<p>The Beneficiary does not possess the full gas analysis of the Flue Gas entering ESP. The awarded Tenderer will have the possibility after the signature of the contract to perform the necessary investigation and measurements at the site in order to collect additional data considered by them as necessary for the design. Mandatory condition for such action will be that the operation of the Unit A3 is not jeopardized.</p>
<p align="center"><b>14</b></p>	<p>We request from you following clarifications:                      1) Coal and Flue gas analysis                          a. Sulphur content in the coal</p>	<p>1)a. Sulphur total content is 0,6%                      1)b.&amp;c. The Beneficiary does not possess the full gas analysis of the Flue Gas entering ESP. The awarded Tenderer will have the possibility</p>

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No	Question	Answer
	<p>b. Operation O2 content</p> <p>c. H2O content in the flue gas</p> <p>2) Following positions are listed as well in 2.8.2/2.8.3 Scope of works as in 2.8.5 Works to be performed by EPS:</p> <p>Chapter 2.8; 2.8.2; 5.; 5.6 New flue gas channels with dampers and electrical actuators where is necessary</p> <p>2.8; 2.8.2; 5.; 5.10 Ash separation system</p> <p>2.8; 2.8.2; 6.; 6.8 Flue gas channels including Flexible Joint and damper</p> <p>2.8; 2.8.2; 6.; 6.10 Ash separation system</p> <p>2.8; 2.8.2; 6.; 6.11 Sludge pipeline</p> <p>2.8; 2.8.2; 6.; 6.12 Tank for equipment chemical washing</p> <p>2.8; 2.8.3; 5.; 5.6 New flue gas channels including Flexible Joints and dampers and electrical actuators</p> <p>2.8; 2.8.3; 5.; 5.7 Sludge pipeline</p> <p>2.8; 2.8.3; 5.; 5.12 Ash separation system</p> <p>2.8; 2.8.3; 6.; 6.8 Flue gas channels including Flexible Joint and damper</p> <p>2.8; 2.8.3; 6.; 6.11 Ash separation system</p> <p>2.8; 2.8.3; 6.; 6.12 Heavy oil tanks</p> <p>2.8; 2.8.3; 6.; 6.11 Sludge pipeline</p> <p>In the chapter 2.8.5 are above mentioned works performed by EPS.</p> <p>We assume that the above listened positions are delivered and erected by EPS. Please confirm.</p>	<p>after the signature of the contract to perform the necessary investigation and measurements at the site in order to collect additional data considered by them as necessary for the design. Mandatory condition for such action will be that the operation of the Unit A3 is not jeopardized.</p> <p>2) The limits of the Works are as follows:</p> <p>On Flue Gas side Dumper and Flexible Joint (included) in front of ESP's Diffusor, Flexible Joint including flanges above Induced Draft Fan. The Tenderers should take account of the fact that the future Contractor will have to submit detail design of redesigned ducts to Beneficiary in order to enable Beneficiary to perform necessary adaptations on rest of flue gas ducts.</p> <p>On the bottom side of ESP limit of responsibilities are flanges (including flanges) of the hoppers.</p> <p>Ash handling system and Sludge pipe lines are fully the responsibility of EPS</p>
15	<p>We took the tender documents for the Project No. Europe Aid/134187/C/WKS/RS.</p> <p>After reviewing tender documents, we noted that companies that want to participate in the bidding is required to visit the site.</p> <p>Therefore, please arrange an appointment to visit sites TENT A3 and TPP Morava.</p> <p>Please let us know of time and date visiting these locations on time.</p>	<p>Please note that the Contract Notice for the subject works tender procedure was published on the EuropeAid website on 30/07/2013.</p> <p>As stated in Article 13 of the Contract Notice <i>"Mandatory site visits will be held on 26/08/2013 at 10h in TPP Nikola Tesla A3 for Lot 1, 27/08/2013 at 10h in TPP Morava for Lot 2, and mandatory information meeting 28/08/2013 at 10h for both lots in the premises of EU Delegation to the Republic of Serbia."</i></p> <p>No further site visits and information meetings are planned.</p>
	It means that we cannot participate in bidding	As defined by Instruction to tenderers (Article

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	<p>phase?</p> <p>Also, whether companies from Ukraine can participate in the tender?</p> <p>Please provide us with further information.</p>	<p>6), site inspection is mandatory, and <i>"the tenderer is obliged to visit and inspect the site of the works and its surroundings for the purpose of assessing, at its own responsibility, expense and risk, factors necessary for the preparation of its tender and the signing of the contract for the works. [Date, time and place, see point 13 of the contract notice.]"</i></p> <p>Please note that in case of an offer submitted by a joint venture / consortium, it is sufficient that only one member has participated in the obligatory site visit and the related attendance certificate is enclosed with the offer.</p> <p>Article 8 of the published Contract Notice defines the eligibility and rules of origin for the participation in the tender procedure: <i>"Participation is open to all legal persons participating either individually or in a grouping (consortium) of tenderers which are established in a Member State of the European Union or in a country or territory of the regions covered and/or authorised by the specific instruments applicable to the programme under which the contract is financed (see also heading 22 below)."</i></p> <p>Article 22 of the same document specifies the legal basis for the tender procedure: <i>"Instrument for Pre-Accession Assistance (Council Regulation (EC) N° 1085/2006 of 17th July 2006 - OJ L 210/82 of 31.7.2006)"</i>.</p>						
16	<p>We need to clarify the following points:</p> <p><b>Volume 3: EMPLOYER'S REQUIREMENTS</b></p> <p>There are principal discrepancies in parameters (flow volume is the most important) mentioned in table 2.2 – page 14, tables 2.5 and 2.6 – page 17 (this tables indicate approximately the same value – 428-433 Nm<sup>3</sup>/s) and Section 2.5.3 – page 25 (866 Nm<sup>3</sup>/s). If we take into account technical solution from Feasibility study (part of Tender), the flue gas velocity through ESPs is more than twice higher than value recommended in Section 2.9.8 (1,0-1,5 m/s). From the above mentioned and our experiences with similar units we consider the value mentioned in Section 2.5.3 (866 Nm<sup>3</sup>/s) as incorrect. We know you've answered a similar question, but this value is still unclear and essential for the ESP design.</p> <p>Please check also the same parameters for TPP Morava, because flue gas velocity through EPS</p>	<p>Please also refer to the answer to question 12 above.</p> <p>Related to TPP Morava, in accordance with the Basic design, the design data are:</p> <table border="0"> <tr> <td>Flue gas temperature</td> <td align="right">170°C,</td> </tr> <tr> <td>Flue gas flow</td> <td align="right">700.000 Nm<sup>3</sup>/h wet gas,</td> </tr> <tr> <td>Dust concentration</td> <td align="right">64g/Nm<sup>3</sup> dry gas, 6% O<sub>2</sub></td> </tr> </table> <p>Answers to the actual questions:</p> <p>a) No</p> <p>b) The Beneficiary does not possess any drawings except the ones already attached to the Tender Dossier</p> <p>c) Regarding VAT: Please see the answer to question no. 3 above.</p>	Flue gas temperature	170°C,	Flue gas flow	700.000 Nm <sup>3</sup> /h wet gas,	Dust concentration	64g/Nm <sup>3</sup> dry gas, 6% O <sub>2</sub>
Flue gas temperature	170°C,							
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Dust concentration	64g/Nm <sup>3</sup> dry gas, 6% O <sub>2</sub>							

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	<p>(according to Feasibility study) also considerably increases the recommended value.</p> <p>Please clarify.</p> <p>a) Is it possible to use the other type of collecting electrodes in rigid pipe frame – e.g. spiral type?</p> <p>b) Please can you submit drawings (mainly civil) in readable form (from your answer we know, that Auto cad is not available). The dimensions in received documentation are not readable.</p> <p>c) Regarding VAT: We, as a Contractor, are exempted from VAT. Would our local subcontractors be exempted from VAT also or not?</p>	
17	<p>You refer in <b>2.7 The Feasibility Study</b> to the Volume VI of the tender. There is no Volume VI in this tender documentation. Please provide us.</p>	<p>The Feasibility Study will be handed over to the winning Tenderer once the contract is signed.</p>
18	<p>With regard to the missing answers to the questions sent 11th. September 2013 we officially ask for a prolongation of the submission date for both projects by two months with the corresponding extension of the main project schedule.</p>	<p>The submission deadline remains unchanged. Please note that in accordance with ITT, article 8.1, the Contracting Authority may reply to tenderers' questions up to at least 11 days before the deadline for receipt of tenders.</p>

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19	<p>We need to check and correct main parameters necessary for ESPs design. Especially gas flow volumes seem to be too high in comparison to boiler/generator output. In our opinion it should be about half of introduced values - based on our experiences from similar output of boilers burning lignite. Please check it properly.</p> <p>Overview of data at <b>ESP's inlet</b> / 1 boiler - based on sent documentation:</p> <table border="1" data-bbox="534 750 1372 1926"> <thead> <tr> <th data-bbox="534 750 782 1097">Project conditions</th> <th data-bbox="534 1097 782 1444">TPP Nikola Tesla, unit A3 Obrenovac, Serbia</th> <th data-bbox="534 1444 782 1926">TPP Morava, Svilajnac, Serbia</th> </tr> <tr> <td></td> <td>Existing</td> <td>new/max. operation</td> </tr> </thead> <tbody> <tr> <td data-bbox="782 750 821 1097">Nominal electric output of technology</td> <td data-bbox="782 1097 821 1444">305</td> <td data-bbox="782 1444 821 1926">120</td> </tr> <tr> <td data-bbox="821 750 861 1097">Fuel:</td> <td data-bbox="821 1097 861 1444">MWe</td> <td data-bbox="821 1444 861 1926">lignite / 85% of Drimno Mine +15% of other</td> </tr> <tr> <td data-bbox="861 750 901 1097">Kind / Origin</td> <td data-bbox="861 1097 901 1444">350</td> <td data-bbox="861 1444 901 1926">lignite / Kolubara Mine</td> </tr> <tr> <td data-bbox="901 750 941 1097">Low heating value</td> <td data-bbox="901 1097 941 1444">6,7</td> <td data-bbox="901 1444 941 1926">8,522</td> </tr> <tr> <td data-bbox="941 750 981 1097">Ash content</td> <td data-bbox="941 1097 981 1444">22</td> <td data-bbox="941 1444 981 1926">23,74</td> </tr> <tr> <td data-bbox="981 750 1021 1097">Volatile content</td> <td data-bbox="981 1097 1021 1444">30</td> <td data-bbox="981 1444 1021 1926">-</td> </tr> <tr> <td data-bbox="1021 750 1061 1097">Moisture content</td> <td data-bbox="1021 1097 1061 1444">48</td> <td data-bbox="1021 1444 1061 1926">38,52</td> </tr> <tr> <td data-bbox="1061 750 1101 1097">Coal consumption</td> <td data-bbox="1061 1097 1101 1444">507</td> <td data-bbox="1061 1444 1101 1926">148</td> </tr> <tr> <td data-bbox="1101 750 1141 1097">Gas parameters:</td> <td data-bbox="1101 1097 1141 1444"></td> <td data-bbox="1101 1444 1141 1926"></td> </tr> <tr> <td data-bbox="1141 750 1181 1097">Gas temperature</td> <td data-bbox="1141 1097 1181 1444">170</td> <td data-bbox="1141 1444 1181 1926">170</td> </tr> <tr> <td data-bbox="1181 750 1220 1097">Gas pressure</td> <td data-bbox="1181 1097 1220 1444">-3 200</td> <td data-bbox="1181 1444 1220 1926">-3 200</td> </tr> <tr> <td data-bbox="1220 750 1260 1097">Barometric pressure</td> <td data-bbox="1220 1097 1260 1444">100 400</td> <td data-bbox="1220 1444 1260 1926">100 000</td> </tr> <tr> <td data-bbox="1260 750 1300 1097">O2 content in gas (dry basis)</td> <td data-bbox="1260 1097 1300 1444">4</td> <td data-bbox="1260 1444 1300 1926">4</td> </tr> <tr> <td data-bbox="1300 750 1340 1097">H2O content in gas</td> <td data-bbox="1300 1097 1340 1444">17,2</td> <td data-bbox="1300 1444 1340 1926">17,2</td> </tr> <tr> <td data-bbox="1340 750 1380 1097">Gas flow - normal conditions (0°C, 101325Pa)</td> <td data-bbox="1340 1097 1380 1444">-</td> <td data-bbox="1340 1444 1380 1926">318</td> </tr> <tr> <td data-bbox="1380 750 1420 1097">- normal conditions, dry</td> <td data-bbox="1380 1097 1420 1444">856</td> <td data-bbox="1380 1444 1420 1926">159</td> </tr> </tbody> </table>	Project conditions	TPP Nikola Tesla, unit A3 Obrenovac, Serbia	TPP Morava, Svilajnac, Serbia		Existing	new/max. operation	Nominal electric output of technology	305	120	Fuel:	MWe	lignite / 85% of Drimno Mine +15% of other	Kind / Origin	350	lignite / Kolubara Mine	Low heating value	6,7	8,522	Ash content	22	23,74	Volatile content	30	-	Moisture content	48	38,52	Coal consumption	507	148	Gas parameters:			Gas temperature	170	170	Gas pressure	-3 200	-3 200	Barometric pressure	100 400	100 000	O2 content in gas (dry basis)	4	4	H2O content in gas	17,2	17,2	Gas flow - normal conditions (0°C, 101325Pa)	-	318	- normal conditions, dry	856	159	<p>Related to TPP Nikola Tesla -- please refer to the answer to question no. 12 above.</p> <p>Related to TPP Morava -- the design data in accordance with the Basic design are:</p> <p>Flue gas temperature.....170°C,          Flue gas flow..... 700.000 Nm<sup>3</sup>/h          wet gas,          Dust concentration..... 64 g/Nm<sup>3</sup>          dry gas, 6% O<sub>2</sub></p>
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No	Question					Answer
	- effective conditions - reported - effective conditions - calculated*	m3/s m3/s	1 754 1 748,4	1 815 1 768,8	308 326,1	616 540,0
	Unburnt materials content in fly ash	%	1.10 <sup>11</sup> -1.10 <sup>13</sup>	3 5.5.10 <sup>12</sup> -2.8.10 <sup>14</sup>	1.10 <sup>11</sup> -1.10 <sup>12</sup>	1.10 <sup>11</sup> -1.10 <sup>12</sup>
	Electric resistivity of fly ash	Ω.cm				
	Dust concentration - at ESP Inlet	g/Nm3 g/Nm3, dry g/Nm3, dry, 6%O2 mg/Nm3, dry	57	57	64	64
	guaranteed at ESP outlet	6%O2	?	30		50

\* - values are calculated from reported values introduced in Nm3/s or Nm3/s, dry.

Please review and adjust above mentioned data (mainly data in red letters) to correct values.