

Consultancy Services for Conducting Heat Rate Test of Independent Power Plants (IPPs) in Pakistan			
Sr. No.	RFP Reference	OMS Comments/Suggestions	CPPA-G Response
1	Page 32 : Appendix A: (TOR) First Paragraph: Central Power Purchasing Agency (Guarantee) Limited (CPPA-G) is the Guarantee Limited Company incorporated under the Companies Ordinance 1984 and it has been assigned the task pursuant to Section 5 of Master Agreement to conduct one time heat rate test of IPPs under 2002 Power Policy through international reputable independent consultant	Does this mean local companies cannot submit the bid or does it imply that for a local company to participate in this tender, partnership with an international firm is essential?	Local Consultants having int'l offices & businesses can be considered as Int'l Consultants. Moreover, local companies having no int'l offices & businesses overseas can submit bids in JV arrangement with international firm.
2	Page: 8 Section-1D Evaluation Criteria: Credit Rating of the Consultant (PACRA or Equivalent)	There is scoring criteria of Credit Rating of Consultant. In our opinion, PACRA is not applicable on Consultant. Need to understand this requirement and how this is necessary.	In the evaluation criteria, Financial Strength of Company in terms of latest Annual Turn Over (PKR) will be used to calculate score instead of PACRA rating.
3	Page: 8 Section-1D Evaluation Criteria: Above 03 Performance Test/Mechanical Engineers having more than 10 years of relevant experience & Professional Certifications	Are there any specific Professional certifications that will be considered or required.	Performance Testing related certifications
4	Page-9: Section-1D Evaluation Criteria: Consultant's Key Human Resource	For the scoring of technical criteria, would the human resources, qualifications, and experience of a joint venture (JV) or subcontractor count towards the consultant's experience points?	Yes. But it is expected that the team proposed for evaluation criteria will be available at site for the assignment.
5	Page-9: Section-1D Evaluation Criteria: Capability of Thermal Modelling using advanced software	Are there any specific software requirements? Additionally, how many plants and curves are foreseen to be required in cases where thermal modelling is necessary, considering it carries significant resources, cost, Lengthy period and lot of data inputs from IPPs.	Development and validation of Heat Rate correction curves for Complex based on OEM data is required.
6	Page 20: Appendix Z: Financial Bid Proforma	Payment milestones and associated terms and conditions may please be clarified	Milestone based payments on prorated basis against each IPP
7	Page 24: Article 12: Responsibilities of CPPA-G and CPPA-G representative	We understand that the responsibility to arrange data from IPPs including existing curves, calibration certificates, plant specifications and other data as requested by consultant, rests with CPPA-G. Please confirm	Refer ToRs in RFP
8	Page 32: Appendix A: (TOR) Second Paragraph: To determine net LHV heat rate (Btu/kWh) at reference site conditions (the conditions referred in PPA) using gas fuel at 100% load. The test shall be conducted by measuring NEO (net electrical output) through primary energy meter(s) and fuel from gas flow meter(s) and corrections shall be made under latest applicable codes like ISO-2314, PTC-22 and ASME PTC 46-2015.	Do the IPP's have alternative fuel? Does the HR on alternative fuel also have to be reported?	Yes, the IPPs have dual fuel capability. Heat Rate test is only required to be conducted on gas/RLNG fuel. No, HSD based testing is required.
9	Page 32; Appendix A, TORs, Scope of Work:	We understand that the IC will identify the list of instruments including Primary Energy meter(s), gas fuel flow meter (s), plant weather station etc. requiring valid calibration certificates before the conduct of test. If validity expired then the calibration of Energy meter(s) will be done by TSG/ NTDC, Gas Flow meter (s) by Gas Supplier and the rest from reputable accredited lab (s) duly witnessed by the IC. The cost of calibrations will be borne by the IPP	Yes
10	Page 32; Appendix A: Item 1: Efficiently and optimally allocate and deploy its resource/professionals for the subject assignment as committed in the bid on full time basis to ensure completion of work within six months (6) from issuing of the work order.	We understand that the responsibility to operate the plant, meet the test conditions and safety of the independent consultant's personnel shall be with the management of the respective power plant and the independent consultant shall be given full access to record test data and collect the fuel samples. Please confirm. It is mentioned that resources shall be deployed on full time basis by the consultant. Clarification required regarding full time engagement of consultant team?	Agreed Full time engagement of allocated and deployed resources is required for the duration of Heat Rate Test of each IPP.
11	Page 32; Appendix A: Item 4: Submit the comprehensive plan including but not limited to Gantt chart with time duration of each activity to be performed pursuant to accomplish the whole assignment in consultation with IPP and CPPA-G.	For the project plan, what is CPPA's suggested approach to initiate the testing process for all mentioned IPPs in parallel, encompassing data gathering, procedure generation, test execution, and reporting.	Comprehensive Plan and deliverables rests with the Consultant.
12	Page 32: Appendix A: (TOR) Item 5: Check and ensure the calibration requirements of primary energy meter(s), fuel flow meter(s) and instruments used for data collection relating to heat rate test. In case, calibration is required the same shall be carried out by TSG NTDC for primary energy meter(s) in line with PPA and for gas fuel flow meter(s) from gas supplier in line with the Gas Supply Agreement and for rest of instrument from reputable accredited lab(s).	Who is responsible to enforce that the calibration is carried out in a timely fashion? Because otherwise, a 6-month testing schedule may be difficult to meet. Further, we understand that the calibrated precision instruments that are required for the purpose of performance testing are installed / available at the plant and no precision test instruments are to be supplied and installed by the independent consultant, and that calibration of any of the plant instruments is also not in the scope of Independent consultant. Please confirm.	Calibrations of equipments, if required, will be carried out by IPPs. No precision test instruments are to be supplied and installed by the Independent Consultant.
13	Page 32; Appendix A: Item 11: Collect data at appropriate intervals for computation of test results. IPP(s) personnel shall facilitate in the recording of readings.	We understand that there would be IPP personnel available to record data on log sheets during performance test? The consultant would not be required to arrange operators for meter reading. Please confirm	Data readings to be used in computation of Heat Rate results is the prime responsibility of the Consultant. IPPs personal will provide facilitation only.

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14	<p>Page 32; Appendix A: Item 12: Use SINGPL gas chromatograph for measuring the fuel gas calorific value on LHV basis. Where any such instrument is unavailable, take 03 samples gas during the test from the location as agreed between IPP and CPPA-G and shall measure calorific value on LHV basis from mutually agreed international reputable lab for calculation of test results.</p>		In case gas testing from 3rd party laboratory is required, we understand that cost of gas sampling and testing shall not be in the consultant scope, please confirm.		In case, gas testing from 3rd party laboratory is required, the cost of gas sampling and testing shall be on consultants account. May be added as separate line item in the financial bid.																																											
15	<p>Page 32: Appendix A: (TOR) Item 13: Repeat the test in case of any interruption (of unit(s), complex or/and grid system) during the test without claiming additional cost till successful completion of the test</p>		This is difficult to agree on as there are many aspects out of the control of the consultant (permits, grid conditions, load availability, etc.) and a significant expense on account of mobilization/demobilization of consultant, fuel sample collection etc shall have to be made by the consultant. We, therefore, request that such expense should be reimbursed to the consultant at actual on the basis of verifiable proof of the expenses.		Contingency charges in Financial Bid.																																											
16	<p>Appendix A: Item 18: The heat rate test will be conducted and used strictly for purposes mentioned in Section 5 of Master Agreement dated 21st February, 2021</p>		Please provide a copy of this document.		Beyond the scope and mandate of the Consultant.																																											
17	<p>Page 40 Appendix E: List of Gas Based IPPs</p> <table border="1"> <thead> <tr> <th>Work Package</th> <th>IPPs</th> <th>Location</th> <th>Fuel</th> <th>Technology</th> <th>Capacity (MW)</th> </tr> </thead> <tbody> <tr> <td>Heat Rate Test WP#01</td> <td>Orient Power</td> <td>Balokki Punjab</td> <td>Gas</td> <td>Gas Turbine based CCPP</td> <td>212.7</td> </tr> <tr> <td>Heat Rate Test WP#02</td> <td>Halmore Power</td> <td>Sheikhupura Punjab</td> <td>Gas</td> <td>Gas Turbine based CCPP</td> <td>209</td> </tr> <tr> <td>Heat Rate Test WP#03</td> <td>Saif Power</td> <td>Sahiwal Punjab</td> <td>Gas</td> <td>Gas Turbine based CCPP</td> <td>209</td> </tr> <tr> <td>Heat Rate Test WP#04</td> <td>Sapphirez Electric Power</td> <td>Sheikhupura Punjab</td> <td>Gas</td> <td>Gas Turbine based CCPP</td> <td>209</td> </tr> <tr> <td>Heat Rate Test WP#05</td> <td>Foundation Power</td> <td>Daharki Sindh</td> <td>Gas</td> <td>Gas Turbine based CCPP</td> <td>171</td> </tr> <tr> <td>Heat Rate Test WP#06</td> <td>Engro Powergen Qadirpur</td> <td>Ghotki Sindh</td> <td>Gas</td> <td>Gas Turbine based CCPP</td> <td>216</td> </tr> </tbody> </table>		Work Package	IPPs	Location	Fuel	Technology	Capacity (MW)	Heat Rate Test WP#01	Orient Power	Balokki Punjab	Gas	Gas Turbine based CCPP	212.7	Heat Rate Test WP#02	Halmore Power	Sheikhupura Punjab	Gas	Gas Turbine based CCPP	209	Heat Rate Test WP#03	Saif Power	Sahiwal Punjab	Gas	Gas Turbine based CCPP	209	Heat Rate Test WP#04	Sapphirez Electric Power	Sheikhupura Punjab	Gas	Gas Turbine based CCPP	209	Heat Rate Test WP#05	Foundation Power	Daharki Sindh	Gas	Gas Turbine based CCPP	171	Heat Rate Test WP#06	Engro Powergen Qadirpur	Ghotki Sindh	Gas	Gas Turbine based CCPP	216	Details about each of the IPP's, configuration, inlet conditioning (evaps, SPRITS, chillers, etc) may please be provided to fairly assess the quantum of work.		Details will only be shared with the successful bidder.	
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