

CORRIGENDUM 2 FOR NIT-26767/ENQ:551504041, DATED 08-MARCH-2016 ON SUPPLY OF "FAN MEANLINE DESIGN AND ANALYSIS SOFTWARE"

Page No and SL.NO in Enquiry	Description	BHEL -SPECIFICATION- EXISTING	TO BE READ AS
Page No: 8 of 21 & Sl. No : 1	General Description	The software should be capable of carrying out Meanline design and analysis of Radial, Axial and Mixed flow Fan. The mean line design output file from the software should be importable and compatible to Concepts NREC software "AxCent" which is available at BHEL Corp. R&D, for carrying out further 3D Blade/Impeller design.	The software should be capable of carrying out Meanline design and analysis of Radial, Axial and Mixed flow Fan. The mean line design output file from the software should be importable and compatible to Concepts NREC software "AxCent" which is available at BHEL Corp. R&D, for carrying out further 3D Blade/Impeller design. Details of importable and compatible formats are elaborated in Sl. No 2.14.
Page No: 8 of 21 & Sl. No : 2.14	Software Feature	The Meanline design obtained through this software should be importable and compatible to the Concepts NREC software "AxCent" for carrying out further 3D Blade/Impeller design. (Importable means, the user should be able to successfully import the output from the Meanline design software without any errors into AxCent. Compatible means after importing, it should show the meridional contour in AxCent which is editable)	<p>The Meanline design obtained through this software should be importable and compatible to the Concepts NREC software "AxCent" for carrying out further 3D Blade/Impeller design. (Importable means, the user should be able to successfully import the output from the Meanline design software without any errors into AxCent. Compatible means after importing, it should show the meridional contour in AxCent which is editable).</p> <p>The following output formats from mean line design software are importable & compatible in AxCent:</p> <ol style="list-style-type: none"> a) *.GEO - Proprietary file of Concept NREC b) *.IGES or *.IGS c) *.STP d) ACIS (*.SAT) e) PARASOLID f) Surface Files (*.SURF), having X,Y,Z,R & Theta co-ordinates and/or only X,Y & Z co-ordinate values for various sections with Leading Edge & Trailing Edge data. <p>At least one of the above mentioned formats should be the output of the supplied Mean line design software</p>

Page No and SL.NO in Enquiry	Description	BHEL -SPECIFICATION- EXISTING	TO BE READ AS
Page No: 9 of 21 & Sl. No 3, Clause No: 3.1 and Clause No.: 3.3,point v	Qualification criteria	<p>Clause No: 3 .1 : Case Study: The following case study to be carried out using the offered software by the vendor as a requirement of technical qualification. The vendor should also confirm that the Meanline design output file can be easily transferred to Concepts NREC software "AxCent" for carrying out further 3D Blade/Impeller design.</p> <p>Mean line design of a Single stage Radial FAN (UNIDIRECTIONAL),Design Flow parameters: Volumetric flow rate : 1.35 [m³/s] Speed : 1500 [RPM], Pressure rise required : 729 [Pa] Geometrical constraints: Maximum Exit Diameter, D2:560 [mm],Maximum Exit Width, B2 :75 [mm] Maximum Number of Blades:9, Shaft Diameter: 200 [mm], Front seal clearance:5.5 [mm] Targeted aerodynamic efficiency : 60 % (+- 2.5%) at Design point in Meanline analysis. However higher efficiency predicted beyond the specific range shall also be accepted.</p> <p>Clause No: 3.3, point no: v v. The steps to be followed to transfer the Meanline design file to Concepts NREC software "AxCent" which is available at BHEL Corp. R&D, should be documented along with pictures.</p>	<p>Clause No: 3 .1 : Case Study: The following case study to be carried out using the offered software by the vendor as a requirement of technical qualification.</p> <p>Mean line design of a Single stage Radial FAN Impeller (closed) (UNIDIRECTIONAL),Design Flow parameters: Volumetric flow rate : 1.35 [m³/s] Speed : 1500 [RPM], Pressure rise required : 729 [Pa] Geometrical constraints: Maximum Exit Diameter, D2:560 [mm],Maximum Exit Width, B2 :75 [mm] Maximum Number of Blades:9, Shaft Diameter: 200 [mm], Front seal clearance:5.5 [mm] Targeted aerodynamic efficiency : 60 % (+- 2.5%) at Design point in Meanline analysis. However higher efficiency predicted beyond the specific range shall also be accepted.</p> <p>Clause No: 3.3, point no: v v. Procedures to be followed in the Meanline Design software for exporting output as per format mentioned vide Sl. No.2.14 should be clearly brought out in report.</p>
Tender Due date		25-Apr-2016, 12.00 hrs	03-May-2016, 12.00 hrs
Indicative delivery date		30-May-2016	30-Jun-2016

All other tender specifications remain same.