

Air Cooled Condenser Package for 3X800MW NTPC Patratu

Amendment No. 8

Date 06 June, 2018

Sl. No.	Reference	Instead Of	Read As
01	Annexure-IV.1-1, Mechanical scope between BHEL and Bidder		Annexure-IV.1-1 revised and enclosed with this amendment.
02	HE57070, clause IV.7.2.8, FAN, Page 54 of 121		<u>New clause added:</u> f) Ultrasonic test shall be carried out on shaft material diameter $\geq 40\text{mm}$. g) Moment weight (Proof Load) test on blades shall be checked. h) Assembly fit up and balancing shall be checked either at manufacturing shop or at site.
03	Annexure-IV.3-1		Annexure revised
04	Annexure-IV.3-4 and Annexure-IV.3-7	Site elevation from MSL(m): 377	Site elevation from MSL(m) : 375
05	HE57070, clause IV.4.5.1.11, page 33 of 121	The fan shall be able to adapt to continuous and intermittent operation, fan operation shall not cause any excessive vibration of its surrounding structure or ACC, the use of anti-vibration pads is not foreseen. The fan shall be provided with vibration protection switch, this switch shall adopt mechanical instrument with reset button and this button shall be provided in a place accessible to the operating personnel so as to make operation convenient. The fan unit shall be convenient in servicing and maintenance.	The fan shall be able to adapt to continuous and intermittent operation, fan operation shall not cause any excessive vibration of its surrounding structure or ACC, the use of anti-vibration pads is not foreseen. The fan shall be provided with vibration sensors along with transmitters. The fan unit shall be convenient in servicing and maintenance.

06	HE57070, clause IV.4.5.2.15, page 34 of 121	Bidder to provide fan vibration switch measurement device for vibration measurement and control.	Bidder to provide fan vibration sensors along with transmitters for vibration measurement and control.
07	HE57070, clause IV.7.2.9, page 54 of 121		<u>New clause added:</u> e) Gear box shall be tested for no load run test for 4 hours.
08	Annexure-IV.10-1		Annexure Revised
09	Annexure-IV.9-1, checklist		Annexure Revised
10	HE57070, clause IV.7.1.18, General requirement of quality assurance, Page 51 of 121		<u>New clause added:</u> f) UT shall be carried out for the raw material thicknesses $\geq 40\text{mm}$ at plates, Bars, Forgings etc.
11	HE57070, clause IV.4.3.6, page 27 of 121	Drain tank/pot shall be placed in TG Building under the hot box as shown in Annexure-IV.4-1. Drain pumps 2 x 100% or 3X50% capacity motor driven for each unit along with all accessories, drives, suction strainers, associated piping, and valves, flow elements with flow transmitter and indicators, instrumentation and control etc. Including one number canister drainage pump per station shall be provided by Bidder. Bidder to include the location of drain tank and pump in the ACC general arrangement drawing inline with Annexure-IV-4.1 with tentative size of drain tank and pit size for drain pump.	Drain tank/pot shall be placed in TG Building under the hot box as shown in Annexure-IV.4-1. Drain pumps 2 x 100% or 3X50% capacity motor driven for each unit along with all accessories, drives, suction strainers, associated piping, and valves, flow elements with flow transmitter and indicators, instrumentation and control etc. Including one number pump per station for drainage of canister shall be provided by Bidder. Bidder to include the location of drain tank and pump in the ACC general arrangement drawing inline with Annexure-IV-4.1 with tentative size of drain tank and pit size for drain pump.
12	Annexure-IV.4-13, Mandatory spares		Annexure Revised
13	HE57070, clause IV.4.4.7, page 30 of 121	The finned tubes shall be designed for full vacuum and internal pressure of 0.5bar.	The finned tubes shall be designed for full vacuum and internal pressure of 0.5bar(g).