

Annexure-3 4

Proposed Qualification requirement and Pay Structure for Research Associates

Table-1: Proposed Manpower Qualification and Selection Criteria		
SN	Detail	Qualification
1	Post for Research Associates	Research Associate for DHI funded AUSC Project "Development of Combustion, ash deposition and slagging mechanism through lab/pilot scale coal combustion and development of boiler combustion CFD model for performance optimization of AUSC boiler"
2	No of Post	3 Nos
3	Type of Post	Temporary/Contractual for Specific Project mentioned above
4	Contract Period	18 months
5	Place of Posting	NTPC NETRA , Greater Noida
6	Qualification Proposed for RA for CFD modeling of boiler and combustion process	<p>Essential Qualification: PhD/MS or equivalent degree in areas related to Mech/Chemical/Fluid/Thermal/Aeronautical/Energy/Combustion /CFD modeling with ME/M.Tech or equivalent degree in the above related area with 1st Division or 60% marks or equivalent grade point average in PG course.</p> <p>Or ME/M.Tech or equivalent degree with 1st Division or 60% marks or equivalent grade point in Mech/Chemical/Fluid/Thermal/ Aeronautical/Energy having CFD modeling as part of ME/M.Tech Thesis with 3 years of research/teaching/design & development experience</p> <p>Desirable Qualification: Preference will be given to candidate having experience of CFD modeling of combustion process/Heat Transfer/Flow process with proven skill in the following tools:</p> <ul style="list-style-type: none"> • ANSYS Fluent/ CFX, ICEM CFD, CFD pre-post processing • Solid works/Catia/Ansys Design Modeler
7	Qualification Proposed for RA for Experimentation in the Drop Tube Reactor and analysis of results and developing co-relations between experimental results and boiler operations	<p>Essential Qualification: PhD/MS or equivalent degree in areas related to Mech/Chemical/Fluid/Thermal/Aeronautical/Energy/Combustion/CFD modeling with ME/M.Tech or equivalent degree in the above related area with 1st Division or 60% marks or equivalent grade point average in PG course.</p> <p>Or ME/M.Tech or equivalent degree with 1st Division or 60% marks or equivalent grade point in Mech/Chemical/Fluid/Thermal/ Aeronautical/Energy having Combustion/flow process/Heat transfer as part of ME/M.Tech Thesis and 3 years of research/teaching/design & development experience</p> <p>Desirable Qualification: Preference will be given to candidate having experience in experimental work in Combustion/Fluid mechanics/Heat transfer or having proven experience in combustion process.</p>

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SN	Detail	Qualification
8	<p>Qualification Proposed for RA for Characterization of coal/ash using different analytical equipment and software and analysis of data for developing coal combustion/ash deposition/slagging/clinkering mechanism</p>	<p>Essential Qualification: PhD/MS or equivalent degree in areas related to Mech/Chemical/Fluid/Thermal/Aeronautical/Energy/Combustion/CFD modeling with ME/M.Tech or equivalent degree in the above related area with 1st Division or 60% marks or equivalent grade point average in PG course.</p> <p>Or ME/M.Tech or equivalent degree with 1st Division or 60% marks or equivalent grade point in Mech/Chemical/Fluid/Thermal/Aeronautical/Energy having Combustion/flow process/Heat transfer as part of ME/M.Tech Thesis and 3 years of research/teaching/design & development experience</p> <p>Desirable Qualification: Preference will be given to candidate having experience in Combustion/Fluid mechanics/Heat transfer with knowledge of analysis using following analytical equipment:</p> <ul style="list-style-type: none"> • Powder (like coal/ash) characterization and analysis • Thermal analysis equipment like TGA, DSC, STA, TMA etc • SEM, CCSEM, XRD, XRF, pycnometer, porosimeter etc