

| CLAUSE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | INTENT OF SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | एनटीपीसी<br>NTPC                                                                 |                                             |                                                                                                                                                                                                                                                                                                                                                          |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
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| 4.00.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Qualifying Requirements for Equipment/Systems</b><br><br>The Bidder / Bidder's sub-vendor(s) is required to meet the provenness criteria and/or qualification requirement for the items/ services listed below as per the stipulated criteria indicated in the respective clauses. For the purpose of qualification of Bidders / Sub-vendor(s), experience shall be reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder unless otherwise specified in the respective clauses.                                                                                                                |                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                          |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| 4.01.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Provenness criteria for critical equipment, auxiliaries, systems and bought out items:</b><br><br>The Bidder / Bidder's sub-vendor(s) is required to meet the provenness criteria and/or qualification requirement for critical equipments, auxiliaries, systems and bought out items as per criteria stipulated below:                                                                                                                                                                                                                                                                                                                                                   |                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                          |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| 4.01.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <del>Booster Fans, Slurry Recirculation Pumps, Oxidation Blowers, Wet Limestone Grinding Mills, Slurry Pumps, Agitators &amp; Vacuum Belt Filters</del> for the Wet Limestone based Flue Gas Desulphurisation (FGD) System offered by the Bidder shall be only from such manufacturer(s) who has previously designed (either by itself or under collaboration / licensing agreement), manufactured / got manufactured the respective equipment(s) of the type, application and minimum equipment rating as stipulated below such that the respective equipment(s) should have been in successful operation in at least one (1) plant for a period not less than one(1) year. |                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                          |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| <u><b>Type and Rating for Qualification</b></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                          |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| <table><tr><th>Sl. No.</th><th>Name of Equipment</th><th>Type of Equipment</th><th>Application</th><th>Equipment Rating</th></tr><tr><td>(a)</td><td>Booster Fans</td><td>Axial type with variable pitch control</td><td>Coal fired power plant</td><td><div>Unit size of 660 MW – Flow 610 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div><div>Unit size of 500 MW – Flow 490 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div><div>Unit size of 250 MW &amp; Below – Flow 225 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div></td></tr></table> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Name of Equipment                                                                | Type of Equipment                           | Application                                                                                                                                                                                                                                                                                                                                              | Equipment Rating | (a) | Booster Fans | Axial type with variable pitch control | Coal fired power plant | <div>Unit size of 660 MW – Flow 610 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div> <div>Unit size of 500 MW – Flow 490 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div> <div>Unit size of 250 MW &amp; Below – Flow 225 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div> |  |  |  |
| Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Name of Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Type of Equipment                                                                | Application                                 | Equipment Rating                                                                                                                                                                                                                                                                                                                                         |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Booster Fans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Axial type with variable pitch control                                           | Coal fired power plant                      | <div>Unit size of 660 MW – Flow 610 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div> <div>Unit size of 500 MW – Flow 490 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div> <div>Unit size of 250 MW &amp; Below – Flow 225 m3/s (min.) with Head 400 mmwc (min.) &amp; Fan Speed 900 rpm (max.)</div> |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| LOT-2 PROJECTS<br>FLUE GAS DESULPHURISATION (FGD)<br>SYSTEM PACKAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TECHNICAL SPECIFICATION<br>SECTION – VI, PART-A<br>BID DOC. NO.:CS-0011-109(2)-9 | SUB-SECTION-I<br>INTENT OF<br>SPECIFICATION | PAGE<br>7 OF 21                                                                                                                                                                                                                                                                                                                                          |                  |     |              |                                        |                        |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |

| Sl. No. | Name of Equipment            | Type of Equipment                              | Application                                                                                    | Equipment Rating                                                                                                                                                                                                                                                                                                    |
|---------|------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (b)     | Slurry Recirculation Pumps   | Centrifugal type                               | Wet Limestone based FGD application in Coal fired power plant                                  | Unit size of 500 MW & Above - Flow 10200 m <sup>3</sup> /hr (min.) with Head 16 Meters of Liquid Column (min.)                                                                                                                                                                                                      |
|         |                              |                                                |                                                                                                | Unit size of 250 MW & Below - Flow 5680 m <sup>3</sup> /hr (min.) with Head 16 Meters of Liquid Column (min.)                                                                                                                                                                                                       |
| (c)     | Oxidation Blowers            | Centrifugal/ positive displacement type blower | Wet Limestone based FGD application in Coal fired power plant or any other process application | Unit size of 500 MW & Above - Flow 7300 Nm <sup>3</sup> /hr Dry Basis (min.) with Head 8500 mmwc (min.) for spray tower process Or Head 3500 mmwc (min.) for bubbling type process                                                                                                                                  |
|         |                              |                                                |                                                                                                | Unit size of 250 MW & Below - Flow 5000 Nm <sup>3</sup> /hr Dry Basis (min.) with Head 6500 mmwc (min.) for spray tower process Or Head 3500 mmwc (min.) for bubbling type process                                                                                                                                  |
| (d)     | Wet limestone Grinding mills | Horizontal Wet Ball mill                       | Wet Limestone based FGD application in Coal fired power plant                                  | Station size of 3000 MW - Capacity 40 T/hr (min.) with pulverizing fineness not less than 90% thru 325 mesh<br>Station size of 1980 MW - 2000 MW - Capacity 30 T/hr (min.) with pulverizing fineness not less than 90% thru 325 mesh<br>Station Size of 1500 MW - Capacity 20 T/hr (min.) with pulverizing fineness |



| CLAUSE NO.                                                          | INTENT OF SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                              |                                                                                                                                                                                                                                                                         |                 |
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|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                                                                                                              | <del>not less than 90% thru 325 mesh</del><br>Station size of 500 MW & Below - Capacity 10 T/hr (min.) with pulverizing fineness not less than 90% thru 325 mesh                                                                                                        |                 |
| (e)                                                                 | Slurry Pumps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Centrifugal type                                                                 | Wet Limestone based FGD application or ash slurry application in Coal fired power plant                      | <del>Unit size of 500 MW &amp; Above - Flow 50 m<sup>3</sup>/hr (min.) with head 30 Meters of Liquid Column (min.)</del><br>Unit size of 250 MW & Below - Flow 25 m <sup>3</sup> /hr (min.) with head 30 Meters of Liquid Column (min.)                                 |                 |
| (f)                                                                 | Agitators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Vertical/Horizontal                                                              | Wet Limestone based FGD application in Coal fired power plant                                                | Agitator rating not less than that supplied for 500 MW or higher size unit for similar application                                                                                                                                                                      |                 |
| <del>(g)</del>                                                      | <del>Vacuum Belt filters</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <del>Belt type</del>                                                             | <del>Wet Limestone based FGD application in Coal fired power plant or in any other process application</del> | <del>Station size of 3000 MW-Capacity 65 T/hr (min.)</del><br><del>Station size of 1980 MW-2000 MW-Capacity 50 T/hr (min.)</del><br><del>Station Size of 1500 MW-Capacity 35 T/hr (min.)</del><br><del>Station size of 500 MW &amp; Below-Capacity 17 T/hr (min.)</del> |                 |
|                                                                     | <del>The provenness criteria for equipment (Booster Fans) stipulated at Sl. No. 4.01.01(a) above shall also be considered acceptable provided the rating parameters (i.e., flow, head and rated rpm) is covered within the operating regime of the respective fan performance curve of the reference plant equipment.</del><br><br><del>The provenness criteria for equipment (Slurry Recirculation Pumps) stipulated at Sl. No. 4.01.01(b) above shall also be considered acceptable provided the rating parameters (i.e., flow and head) is covered within the operating regime of the</del> |                                                                                  |                                                                                                              |                                                                                                                                                                                                                                                                         |                 |
| LOT-2 PROJECTS<br>FLUE GAS DESULPHURISATION (FGD)<br>SYSTEM PACKAGE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TECHNICAL SPECIFICATION<br>SECTION – VI, PART-A<br>BID DOC. NO.:CS-0011-109(2)-9 |                                                                                                              | SUB-SECTION-I<br>INTENT OF<br>SPECIFICATION                                                                                                                                                                                                                             | PAGE<br>9 OF 21 |

| CLAUSE NO.                                                          | INTENT OF SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | एनटीपीसी<br>NTPC                                                                 |                                             |                  |               |     |     |  |  |  |
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|                                                                     | <p><del>respective Slurry Recirculation Pump performance curve of the reference plant equipment.</del></p> <p><del>4.01.02</del> In case the Bidder or the proposed sub-vendor is not manufacturer of proven Booster Fans as per clause 4.01.01(a) above but is a manufacturer of such equipment for units of at least * MW rating, the Bidder or the proposed sub vendor shall be considered qualified for manufacturing such equipment for ** MW units also provided it has collaboration or valid licensing agreement for design, engineering, manufacturing, supply of such equipment in India with such manufacturer who meets the requirements stipulated at clause 4.01.01(a) above for the Booster Fans.</p> <p>For value of * and ** refer table below.</p> <table><tr><td>*</td><td>**</td></tr><tr><td>195</td><td>195/ 250/ 500</td></tr><tr><td>500</td><td>660</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                               | *                                                                                | **                                          | 195              | 195/ 250/ 500 | 500 | 660 |  |  |  |
| *                                                                   | **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                  |                                             |                  |               |     |     |  |  |  |
| 195                                                                 | 195/ 250/ 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                                             |                  |               |     |     |  |  |  |
| 500                                                                 | 660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                  |                                             |                  |               |     |     |  |  |  |
|                                                                     | <p><del>4.01.03</del> A JV / Subsidiary Company formed for manufacturing and supply of equipment(s) as listed at clause no. 4.01.01 above in India, shall also be considered qualified for manufacturing such equipment(s), provided that it has a valid collaboration or licensing agreement for design, engineering, manufacturing of such equipment(s) in India with a qualified equipment manufacturer who meets the requirements stipulated at clause 4.01.01 above (or the technology provider of the qualified equipment manufacturer) for the respective equipment(s). Before taking up the manufacturing of such equipment(s), the bidder/ his sub-vendor(s) must create /have created manufacturing facilities at his works as per collaborator's/licenser's design, manufacturing and quality control system for such equipment(s).</p> <p>Further, in such a case, such qualified equipment manufacturers should have, directly or indirectly through its holding company/ subsidiary company, at least 26% equity participation in the Indian Joint Venture Company/ Subsidiary Company, which shall be maintained for a lock-in period of seven (7) years from the date of incorporation of such Joint Venture/ Subsidiary or upto the end of defect liability period of the contract, whichever is later.</p> |                                                                                  |                                             |                  |               |     |     |  |  |  |
|                                                                     | <p><del>4.01.04</del> In case the Bidder or the proposed sub-vendor is not manufacturer of proven Oxidation Blowers as per clause 4.01.01(c) above but is a manufacturer of Blowers/compressors for minimum 50 NM<sup>3</sup>/min capacity, the Bidder or the proposed sub-vendor shall also be considered qualified for manufacturing Oxidation Blowers, provided it has collaboration or valid licensing agreement for design, engineering, manufacturing, supply of such Oxidation Blowers in India with such manufacturer who meets the requirements stipulated at clause 4.01.01(c) above for the Oxidation Blowers. Before taking up the manufacturing of such equipment, the bidder/ his sub-vendor must create /have created manufacturing facilities at his works as per collaborator's /licenser's design, manufacturing and quality control system for such equipments.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |                                             |                  |               |     |     |  |  |  |
| LOT-2 PROJECTS<br>FLUE GAS DESULPHURISATION (FGD)<br>SYSTEM PACKAGE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TECHNICAL SPECIFICATION<br>SECTION – VI, PART-A<br>BID DOC. NO.:CS-0011-109(2)-9 | SUB-SECTION-I<br>INTENT OF<br>SPECIFICATION | PAGE<br>10 OF 21 |               |     |     |  |  |  |



| CLAUSE NO.                                                          | INTENT OF SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | एनटीपीसी<br>NTPC                                                                 |                                             |                  |
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| 4.01.05 (i)                                                         | <p>In case the Bidder or the proposed sub-vendor is not manufacturer of proven Wet limestone Grinding mills as per clause 4.01.01 (d) above but is a manufacturer of dry Grinding mills for power or cement industry of minimum 20 T/h capacity, the Bidder or the proposed sub-vendor shall also be considered qualified for manufacturing Wet limestone Grinding mills, provided it has collaboration or valid licensing agreement for design, engineering, manufacturing, supply of such Wet limestone Grinding mills in India with such manufacturer who meets the requirements stipulated at clause 4.01.01 (d) above for the Wet limestone Grinding mills. Before taking up the manufacturing of such equipment, the bidder/ his sub-vendor must create /have created manufacturing facilities at his works as per collaborator's /licenser's design, manufacturing and quality control system for such equipments.</p> <p>In addition, the Bidder shall be required to furnish a letter of support from Collaborator(s) / Licensor / Technology provider for successful performance of the equipment valid up to the end of defect liability period of the contract as per the format enclosed in the bidding documents, at the time of placement of order on the approved sub-vendor.</p> <p style="text-align: center;"><b>OR</b></p> |                                                                                  |                                             |                  |
| 4.01.05 (ii)                                                        | <p>In case, the bidder or proposed sub vendor is not a manufacturer of proven Wet Limestone Grinding Mills as per clause 4.01.01(d) above, but have designed, manufactured &amp; supplied dry Grinding Ball Tube mills for at least 500 MW pulverized coal fired power plant, the Bidder or the proposed sub-vendor shall also be considered qualified for manufacturing Wet limestone Grinding Mills provided it has a licensing agreement with a Wet limestone Grinding mills manufacturer who meets the requirements stipulated at clause 4.01.01(d) above for the Wet limestone Grinding mills and provides extended warranty of three (3) years for the Wet Limestone Grinding Mills.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                  |                                             |                  |
| <del>4.01.06</del>                                                  | <p><del>In case the Bidder or the proposed sub-vendor is not manufacturer of proven Agitators as per clause 4.01.01(f) above but is a manufacturer of Agitators for similar process/duty application in petrochemical or metals and mining industry, the Bidder or the proposed sub-vendor shall also be considered qualified for manufacturing Agitators, provided it has collaboration or valid licensing agreement for design, engineering, manufacturing, supply of such Agitators in India with such manufacturer who meets the requirements stipulated at clause 4.01.01(f) above for the Agitators. Before taking up the manufacturing of such equipment, the bidder/ his sub-vendor must create /have created manufacturing facilities at his works as per collaborator's /licenser's design, manufacturing and quality control system for such equipments.</del></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                                             |                  |
| <del>4.01.07</del>                                                  | <p><del>In case the Bidder or the proposed sub-vendor is a manufacturer of Slurry Pumps who meets the requirements stipulated at clause 4.01.01(e) above, the Bidder or the proposed sub-vendor shall also be considered qualified for manufacturing Slurry Recirculation Pumps, provided it has collaboration or valid licensing agreement for design, engineering, manufacturing, supply of such equipment in India with such manufacturer who meets the requirements stipulated at clause 4.01.01(b) above for the Slurry Recirculation Pumps. Before taking up the manufacturing of such equipment, the bidder/ his sub-vendor must create /have created manufacturing facilities at his works as per collaborator's /licenser's design, manufacturing and quality control system for such equipment.</del></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                  |                                             |                  |
| LOT-2 PROJECTS<br>FLUE GAS DESULPHURISATION (FGD)<br>SYSTEM PACKAGE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TECHNICAL SPECIFICATION<br>SECTION – VI, PART-A<br>BID DOC. NO.:CS-0011-109(2)-9 | SUB-SECTION-I<br>INTENT OF<br>SPECIFICATION | PAGE<br>11 OF 21 |



| CLAUSE NO.                                                          | INTENT OF SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | एनटीपीसी<br>NTPC                            |                  |
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| 4.01.08                                                             | Before taking up the manufacturing of such equipment(s) as per clause 4.01.02, 4.01.03, 4.01.04, 4.01.05(i), 4.01.06 & 4.01.07 above, the Bidder / its sub vendor(s) must create (or should have created) manufacturing and testing facilities at its works as per Collaborator / licensor's design, manufacturing and quality control system for such equipments duly certified by the Collaborator / licensor. Further, the Collaborator / Licensor shall provide (or should have provided) all design, design calculation, manufacturing drawings and must provide (or should have provided) technical and quality surveillance assistance and supervision during manufacturing, erection, testing, commissioning of equipments. |                                             |                  |
| 4.01.09                                                             | Bidder shall offer and supply only the type of the above equipment(s) for which it, itself or the manufacturer / Collaborator(s) / Licensor(s) proposed by the Bidder for the above equipment(s) is qualified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                  |
| 4.01.10                                                             | The Employer reserves the right to fully satisfy himself regarding capability and capacity of Bidder / its sub-vendor(s) and the proposed arrangement and may prescribe additional requirement before allowing manufacture of the equipment listed above for this contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |                  |
|                                                                     | <b>Note to clause 4.01.01</b><br><br>Whenever the term 'coal fired' is appearing above, "Coal" shall be deemed to also include bituminous coal/brown coal/Anthracite Coal/lignite.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                  |
| <del>4.02.00</del>                                                  | <del><b>Sub QR for Civil Works:</b></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |                  |
| <del>4.02.01</del>                                                  | <del>Bidder or its agency should have in past executed civil and structural works for * or higher capacity (applicable for project having ** MW unit rating) coal based/Lignite based power plant including earthwork in filling involving mechanical compaction and cutting in hard rock, piling, foundations, Bulk material handling plant involving underground storage hopper and underground tunnels.</del>                                                                                                                                                                                                                                                                                                                    |                                             |                  |
| <del>4.02.02</del>                                                  | <del>Bidder can engage more than one agency, in case the Bidder itself is not able to meet the requirement at 4.02.01. The agency being engaged for a particular work should have in the past executed such works of * or higher capacity plant (applicable for project having ** MW unit rating ).</del>                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |                  |
| <del>4.02.03</del>                                                  | <del>For Chimney, Bidder or its agency should have in the past built at least one (1) reinforced concrete chimney of minimum 100m height.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |                  |
| <del>4.02.04</del>                                                  | <del>In case Bidder or its agency do not meet the requirements at 4.02.01 and the Bidder proposes to engage agency (ies) for civil &amp; structural works on work volume basis (except for Chimney), Bidder or its agency (ies) should have executed such works in the past and the annual rate of execution in the reference works should not be less than eighty percent (80%) of the asking rate of such works, (structural steel fabrication, erection, RCC, earthwork in filling involving mechanical compaction and</del>                                                                                                                                                                                                     |                                             |                  |
| LOT-2 PROJECTS<br>FLUE GAS DESULPHURISATION (FGD)<br>SYSTEM PACKAGE | TECHNICAL SPECIFICATION<br>SECTION – VI, PART-A<br>BID DOC. NO.:CS-0011-109(2)-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SUB-SECTION-I<br>INTENT OF<br>SPECIFICATION | PAGE<br>12 OF 21 |

**FLUE GAS DESULPHURISATION (FGD) SYSTEM PACKAGE  
FOR  
LOT-2 PROJECTS  
BIDDING DOCUMENT NO. CS-0011-109(2)-9**

Bidder's Name and Address:

To  
Contract Services-I  
NTPC Limited  
Noida-201301

Summary of Critical Equipment indicated under clause 4.01.00, sub-section-I, Part-A of Section-VI.

| Equipment Name                                                    | Sub-Vendor Name | Collaborator's Name, if applicable | Seeking Qualification as per clause.....<br>Sub-Section-I, Part-A of Section-VI |
|-------------------------------------------------------------------|-----------------|------------------------------------|---------------------------------------------------------------------------------|
| <del>Booster Fans</del>                                           |                 |                                    | <del>*4.01.01 / *4.01.02 / *4.01.03</del>                                       |
| <del>*Slurry Recirculation Pumps</del>                            |                 |                                    | <del>*4.01.01 / *4.01.03 / *4.01.07</del>                                       |
| <del>Oxidation Blowers</del>                                      |                 |                                    | <del>*4.01.01 / *4.01.03 / *4.01.04</del>                                       |
| Wet limestone Grinding mills                                      |                 |                                    | *4.01.01 / *4.01.03 / *4.01.05 (i)/ 4.01.05 (ii)                                |
| Slurry Pumps                                                      |                 |                                    | *4.01.01 / *4.01.03                                                             |
| Agitators                                                         |                 |                                    | *4.01.01 / *4.01.03 / *4.01.06                                                  |
| <del>Vacuum Belt filters</del>                                    |                 |                                    | <del>*4.01.01 / *4.01.03</del>                                                  |
| <b>Note : <del>*Strike-off whichever is not applicable.</del></b> |                 |                                    |                                                                                 |

Signature of authorized signatory.....

1. If qualification sought as per clause 4.01.01, sub-section-I-A, Part-A of Section-VI then the details of the sub vendor (manufacturer) shall be filled by the bidder in the format A to G.
2. If the qualification sought as per the clause 4.01.02, sub-section-I-A, Part-A of Section-VI, then the details of proposed sub vendor (i.e manufacturer of such equipment for at least \*195/\*250/\*500/\*660 MW unit rating) shall be filled individually by the bidder in the format A and the details of collaborator who meets the requirement stipulated at 4.01.01, sub-section-I-A, Part-A of Section-VI shall also be filled by the bidder in the format A separately. Further, in case of qualification vide clause 4.01.02, sub-section-I-A, Part-A of Section-VI a copy of valid ongoing collaboration and technology transfer agreement for design, engineering, manufacturing, supply of such equipment in India with the collaborator who meets the requirement stipulated at 4.01.01, sub-section-I-A, Part-A of Section-VI shall also be furnished.
3. If the qualification sought as per the clause 4.01.03, sub-section-I-A, Part-A of Section-VI then the details of JV/Subsidiary Company formed for manufacturing of such equipment in India shall be furnished individually for each equipment by the bidder such as,
  - i) Copy of document of incorporation of JV/Subsidiary company in India
  - ii) Copy of valid ongoing collaboration and technology transfer agreement for design, engineering, manufacturing, supply of such equipment in India with the collaborator who meets the requirement stipulated at 4.01.01, sub-section-I-A, Part-A of Section-VI.
  - iii) Copy of document of at least 26% equity participation of qualified equipment manufacturer in the Indian JV company/subsidiary company directly or indirectly through its holding company /Subsidiary company, which shall be maintained for a lock -in period of seven (7) years from the date of incorporation of such JV/subsidiary or up to the end of defect liability period of the contract which ever is later.

Further, the details of collaborator or technology provider of the qualified equipment manufacturer who meets the requirement stipulated at 4.01.01, sub-section-I-A, Part-A of Section-VI shall be filled by the Bidder in the format A to G (format given at 1.00.00). In addition to that, the sub vendor along with the Indian JV company/subsidiary company, qualified equipment manufacturer and its holding company/subsidiary company as applicable shall furnish the Letter of Support as per the format enclosed at Annexure-I.

**\* strike out whichever is not applicable.**

- 1.00.00 (Applicable for Bidder/his sub vendors seeking qualification as per clause no. 4.01.01, Sub section-I, Part-A of Section-VI. Bidder shall furnish the required data only for those equipments / auxiliaries which are proposed to be sourced under this route.)

Signature of authorized signatory.....



We, hereby furnish the data on proveness criteria for critical equipment, auxiliaries, systems and Bought Out Items such as Booster Fans, \*Slurry Recirculation Pumps, Oxidation Blowers, Wet Limestone Grinding Mills, Slurry Pumps, & Agitators which have been designed (either by self manufacturer or under valid ongoing collaboration and technology transfer agreement), \*manufactured/ \*got manufactured and supplied by us /Manufacturer (or manufactured/ got manufactured & supplied by our proposed sub-vendors) and these are in successful operation in at least one (1) plant for a period not less than one year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder. The details of type and minimum equipment rating of such equipment are given below :

**A. For Booster Fans:** ~~We declare that, we/our Sub-Vendor, have designed (either by itself or under collaboration / licensing agreement),\*manufactured/\*got manufactured and supplied at least one (1) number of Booster Fan of required flow & head of the offered Booster Fan with Fan Speed 900 rpm (maximum), Axial type with variable pitch control working in a Coal fired power plant and which has been in successful operation for minimum one(1) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder, as per the details furnished below:~~

| Sl. No. | Description                                             | Reference Work      |
|---------|---------------------------------------------------------|---------------------|
| 1.      | Name of the reference plant & location:                 |                     |
| 2.      | Client name and his address:                            |                     |
| 3.      | No. of units and capacity in MW of unit:                |                     |
| 4.      | Whether equipment operating in a coal fired power plant | <del>*Yes/*No</del> |
| 5.      | Name of equipment manufacturer & address:               |                     |

Signature of authorized signatory.....

- D. Wet limestone Grinding mills:** We declare that, we/our Sub-Vendor, have designed (either by itself or under collaboration / licensing agreement), \*manufactured/\*got manufactured and supplied at least one (1) number of Wet limestone Grinding mill of the required capacity with pulverizing fineness not less than 90% thru 325 mesh, working in Wet limestone based FGD application in Coal fired power plant and which has been in successful operation for minimum one(1) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder, as per the details furnished below:

| Sl. No. | Description                                                                          | Reference Work                                                    |
|---------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1.      | Name of the reference plant & location:                                              |                                                                   |
| 2.      | Client name and his address:                                                         |                                                                   |
| 3.      | Whether power plant is coal fired                                                    | -*Yes/*No                                                         |
| 4.      | Whether operating in a Wet Limestone based FGD application in Coal fired power plant | -*Yes/*No                                                         |
| 5.      | Name of equipment manufacturer & address:                                            |                                                                   |
| 6.      | Date of commission of the equipments:                                                |                                                                   |
| 7.      | Model no. of the equipment:                                                          |                                                                   |
| 8.      | Brief Technical particulars of the equipments:                                       |                                                                   |
| 9.      | Capacity-                                                                            | .....TPH with pulverizing fineness not less than 90% thru 325mesh |

Signature of authorized signatory.....



| Sl. No. | Description                                                                                                                                                                                                                                              | Reference Work                                                                                                                                                                        |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.     | Whether the equipment(s) are in successful operation in atleast one (01) plant for a period not less than one (01) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder | -*Yes/*No                                                                                                                                                                             |
| 11.     | Flue gas Desulphurization system details:                                                                                                                                                                                                                | *Technical extract/ *paper letter/ *email/<br>*Drawing from user or *contract document<br>or *scheme or *any document in<br>public domain enclosed at annexure....to<br>Attachment-3K |
| 12.     | Scope of Work:                                                                                                                                                                                                                                           | *Letter of Award or *Contract or *P.O.<br>enclosed at Annexure.....to Attachment-3K                                                                                                   |
| 13.     | Performance details:                                                                                                                                                                                                                                     | *Certificate/*Letter/*E-mail from End user<br>enclosed at Annexure.....to Attachment-3K                                                                                               |

**\* Strike off whichever is not applicable.**

Signature of authorized signatory.....

- E. Slurry Pumps:** We declare that, we/our Sub-Vendor, have designed (either by itself or under collaboration / licensing agreement), \*manufactured/\*got manufactured and supplied at least one (1) number of Slurry Pump of required flow & head, Centrifugal type working in Wet Limestone based FGD application or ash slurry application in coal fired power plant and which has been in successful operation for minimum one (1) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder, as per the details furnished below:

| Sl. No. | Description                                                                                    | Reference Work                        |
|---------|------------------------------------------------------------------------------------------------|---------------------------------------|
| 1.      | Name of the reference plant & location:                                                        |                                       |
| 2.      | Client name and his address:                                                                   |                                       |
| 3.      | No. of units and capacity in MW of unit:                                                       |                                       |
| 4.      | Whether operating in a Wet Limestone based FGD application or similar process/duty application | -*Yes/*No                             |
| 5.      | Whether operating in a similar process/duty application                                        | -*Yes/*No....(indicate industry type) |
| 6.      | Name of equipment manufacturer & address:                                                      |                                       |
| 7.      | Date of commission of the equipments:                                                          |                                       |
| 8.      | Model no. of the equipment:                                                                    |                                       |
| 9.      | Brief Technical particulars of the equipments:                                                 |                                       |
| 10.     | Flow-                                                                                          | .....m <sup>3</sup> /h                |

Signature of authorized signatory.....

| Sl. No. | Description                                                                                                                                                                                                                                            | Reference Work                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.     | Head-                                                                                                                                                                                                                                                  | ..... meters of liquid column                                                                                                                                                           |
| 12.     | Whether the equipment(s) are in successful operation in atleast one(01) plant for a period not less than one(01) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder | -*Yes/*No                                                                                                                                                                               |
| 13.     | Flue gas Desulphurization system details:                                                                                                                                                                                                              | *Technical extract/ *paper letter/ *email/<br>*Drawaing from user or *contract docu<br>ment or *scheme or *any document in<br>public domain enclosed at annexure....to<br>Attachment-3K |
| 14.     | Scope of Work:                                                                                                                                                                                                                                         | *Letter of Award or *Contract or *P.O.<br>enclosed at Annexure.....to Attachment-3K                                                                                                     |
| 15.     | Performance details:                                                                                                                                                                                                                                   | *Certificate/*Letter/*E-mail from End user<br>enclosed at Annexure.....to Attachment-3K                                                                                                 |

\* Strike off whichever is not applicable.

Signature of authorized signatory.....



**F. Agitators:** We declare that, we/our Sub-Vendor, have designed (either by itself or under collaboration / licensing agreement),\*manufactured/\*got manufactured and supplied at least one (1) number of Agitators with rating not less than that supplied for 500 MW or higher size unit for similar application, Vertical/Horizontal type working in Wet Limestone based FGD application in Coal fired power plant and which has been in successful operation for minimum one(1) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder, as per the details furnished below::

| Sl. No. | Description                                                                          | Reference Work    |
|---------|--------------------------------------------------------------------------------------|-------------------|
| 1.      | Name of the reference plant & location:                                              |                   |
| 2.      | Client name and his address:                                                         |                   |
| 3.      | No. of units and capacity in MW of unit:                                             |                   |
| 4.      | Whether power plant is coal fired                                                    | -*Yes/*No         |
| 5.      | Whether operating in a Wet Limestone based FGD application in coal fired power plant | -*Yes/*No         |
| 6.      | Name of equipment manufacturer & address:                                            |                   |
| 7.      | Date of commission of the equipments:                                                |                   |
| 8.      | Model no. of the equipment:                                                          |                   |
| 9.      | Brief Technical particulars of the equipments:                                       |                   |
| 10.     | Agitators supplied for                                                               | .....MW unit size |

Signature of authorized signatory.....

| Sl. No. | Description                                                                                                                                                                                                                                            | Reference Work                                                                                                                                                              |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.     | Whether the equipment(s) are in successful operation in atleast one(01) plant for a period not less than one(01) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder | -*Yes/*No                                                                                                                                                                   |
| 12.     | Flue gas Desulphurization system details:                                                                                                                                                                                                              | *Technical extract/ *paper letter/ *email/ *Drwaing from user or *contract docu ment or *scheme or *any document in public domain enclosed at annexure.....to Attachment-3K |
| 13.     | Scope of Work:                                                                                                                                                                                                                                         | *Letter of Award or *Contract or *P.O. enclosed at Annexure.....to Attachment-3K                                                                                            |
| 14.     | Performance details:                                                                                                                                                                                                                                   | *Certificate/*Letter/*E-mail from End user enclosed at Annexure.....to Attachment-3K                                                                                        |

\* Strike off whichever is not applicable.

Signature of authorized signatory.....

**\*2.00.00**      **Applicable for Bidder/his sub vendors seeking provenness criteria as per clause no. 4.01.02, Sub section-I, Part-A of Section-VI.**

**2.01.00**      We, hereby confirm that we/our sub-vendors are a regular manufacturer of Booster Fan for units of atleast \*195/\*250/\*500/\*660 MW rating and the details in this regard on provenness criteria as per clause **4.01.01**, sub-section-I, Part-A, Section-VI are hereby furnished below:

**\*Bidder to strike off whichever is not applicable.**

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

**2.02.00**      We further confirm that details in respect of collaboration / valid licencing agreement for the aforesaid equipment as per 2.01.00 above who meets the requirement stipulated at clause **4.01.01**, sub-section-I, Part-A, Section-VI are enclosed at **Annexure-.....** to this Attachment. The data in respect of proveneness criteria for these equipment which are in successful operation in at least one (1) plant for a period not less than one reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder are furnished below. We further confirm that we/ our sub vendor(s) have created manufacturing and testing facilities at our/ their works as per collaborator's/ Licensor's design, manufacturing & quality control system for these equipment(s)/ Auxilliary(ies).

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

Signature of authorized signatory.....

**\*3.00.00**      **Applicable for JV Company/Subsidiary Company meeting provenness criteria as per clause no. 4.01.01, Sub section-IA, Part-A of Section-VI.**

**3.01.00**      We, hereby confirm that JV company/ Subsidiary company (Strike off whichever is not applicable) formed for manufacturing and supply of equipment(s) (\*Booster Fans, \*Slurry Recirculation Pumps, \*Oxidation Blowers, \*Wet Limestone Grinding Mills, \*Slurry Pumps, \*Agitators, \*Vacuum Belt Filters) has a valid ongoing collaboration and technology transfer agreement for design, engineering, manufacturing of such equipment(s) in India with a qualified equipment manufacturer who meets the requirements stipulated at clause 4.01.01 of sub-section-I, Part-A, Section VI of bidding documents (or the technology provider of the qualified equipment manufacturer). Further, in such a case, such qualified equipment manufacturers is having, directly or indirectly through its holding company/subsidiary company, at least 26% equity participation in the Indian Joint Venture Company/subsidiary company, which shall be maintained for a lock-in period of seven (7) years from the date of incorporation of such Joint Venture / Subsidiary or up to the end of defect liability period of the contract, whichever is later. Before taking up the manufacturing of such equipment(s) (\*Booster Fans, \*Slurry Recirculation Pumps, \*Oxidation Blowers, \*Wet Limestone Grinding Mills, \*Slurry Pumps, \*Agitators, \*Vacuum Belt Filters), we/ our sub vendor(s) \*will create /\*have created manufacturing facilities at his works as per collaborator's/licenser's design, manufacturing and quality control system.

We further confirm that details in respect of collaboration / valid licencing agreement for the aforesaid equipment(s) (\*Booster Fans, \*Slurry Recirculation Pumps, \*Oxidation Blowers, \*Wet Limestone Grinding Mills, \*Slurry Pumps, \*Agitators, \*Vacuum Belt Filters) who meets the requirement stipulated at clause **4.01.01**, sub-section-I, Part-A, Section-VI for are enclosed at **Annexure-.....** to this Attachment.

Signature of authorized signatory.....



**\*4.00.00**      **Applicable for Bidder/his sub vendors seeking provenness criteria as per clause no. 4.01.04, Sub section-I, Part-A of Section-VI.**

**4.01.00**      We, hereby confirm that \*we/\*our sub-vendors is a manufacturer of Blowers/compressors for minimum 50 NM<sup>3</sup>/min capacity.  
(Details of references enclosed at Annexure .....)

**(Data to be furnished in line with format given at 1.00.00 of this Attachment))**

**4.02.00**      We further confirm that details in respect of collaboration / valid licencing agreement for the Oxidation Blower between \*us/\*our sub-vendors, as per 4.01.00 above, and with qualified Oxidation Blower manufacturer, who meets the requirement stipulated at clause **4.01.01**, sub-section-I, Part-A, Section-VI are enclosed as per **Annexure-I** to this Attachment. The data in respect of proveneness criteria for the qualified Oxidation Blower manufacturer, which are in successful operation in at least one (1) plant for a period not less than one reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder are furnished below. We further confirm that we/ our sub vendor(s) have created manufacturing and testing facilities at our/ their works as per collaborator's/ Licensor's design, manufacturing & quality control system for the Oxidation Blowers.

We further confirm that before taking up the manufacturing of such Oxidation Blower \*we/ \*our sub vendor(s) \*will create /\*have created manufacturing facilities at his works as per collaborator's/licensor's design, manufacturing and quality control system.

We further confirm that details in respect of collaboration / valid licencing agreement for the Oxidation Blowers who meets the requirement stipulated at clause **4.01.01**, sub-section-I, Part-A, Section-VI for are enclosed at **Annexure-.....** to this Attachment.

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

Signature of authorized signatory.....

**\*5.00.00**      **Applicable for Bidder/his sub vendors seeking provenness criteria as per clause no. 4.01.05 (i), Sub section-I, Part-A of Section-VI.**

5.01.00      We, hereby confirm that \*we/\*our sub-vendors is a manufacturer of Dry Grinding Mills for minimum 20 T/h capacity. (Details of references enclosed at Annexure .....)

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

5.02.00      We further confirm that details in respect of collaboration / valid licencing agreement for the Wet Grinding Mills between \*us/\*our sub-vendors, as per 5.01.00 above, and with qualified Wet Grinding Mill manufacturer, who meets the requirement stipulated at clause **4.01.01**, sub-section-I, Part-A, Section-VI are enclosed at **Annexure-.....** to this Attachment. The data in respect of proveneness criteria for the qualified Wet Grinding Mill manufacturer, which is in successful operation in at least one (1) plant for a period not less than one reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder are furnished below.

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

We further confirm that before taking up the manufacturing of such Wet Grinding Mill \*we/ \*our sub vendor(s) \*will create /\*have created manufacturing facilities at his works as per collaborator's/licenser's design, manufacturing and quality control system.

In addition, the Bidder along with our sub-vendors, as per 5.01.00 above (if applicable) and the qualified Wet Grinding Mill manufacturer and its holding/ subsidiary Company, as applicable, shall furnish Letter of Support as per the format enclosed at Annexure-I.

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

Signature of authorized signatory.....

**\*6.00.00**      **Applicable for Bidder/his sub vendors seeking provenness criteria as per clause no. 4.01.05 (ii), Sub section-I, Part-A of Section-VI.**

**6.01.00**      We, hereby confirm that \*we/\*our sub-vendors have designed, manufactured & supplied dry Grinding Ball Tube mills for at least 500 MW pulverized coal fired power plant. (Details of references enclosed at Annexure .....)

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

6.02.00      We further confirm that details in respect of valid licencing agreement for the Wet Grinding Mills between \*us/\*our sub-vendors, as per 6.01.00 above, and with qualified Wet Grinding Mill manufacturer, who meets the requirement stipulated at clause **4.01.01**, sub-section-I, Part-A, Section-VI are enclosed at **Annexure-.....** to this Attachment. The data in respect of provenness criteria for the qualified Wet Grinding Mill manufacturer, which is in successful operation in at least one (1) plant for a period not less than one reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder are furnished below.

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

We further confirm that \*we/\*our sub-vendors shall provide an extended warranty of three (3) years for the Wet Limestone Grinding Mills

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

Signature of authorized signatory.....

**\*7.00.00**      **Applicable for Bidder/his sub vendors seeking provenness criteria as per clause no. 4.01.06, Sub section-I, Part-A of Section-VI.**

**7.01.00**      We, hereby confirm that \*we/\*our sub-vendors is a manufacturer of a manufacturer of Agitators for similar process/duty application in petrochemical or metals and mining industry. (Details of references enclosed at Annexure .....)

**(Data to be furnished in line with format given at 1.00.00 of this Attachment))**

**7.02.00**      We further confirm that details in respect of collaboration / valid licencing agreement for the Agitator between \*us/\*our sub-vendors, as per 6.01.00 above, and with qualified Agitator manufacturer, who meets the requirement stipulated at clause **4.01.01**, sub-section-I, Part-A, Section-VI are enclosed at **Annexure-.....** to this Attachment. The data in respect of proveneness criteria for the qualified Agitator manufacturer, which is in successful operation in at least one (1) plant for a period not less than one reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder are furnished below.

We further confirm that before taking up the manufacturing of such Agitator, \*we/ \*our sub vendor(s) \*will create /\*have created manufacturing facilities at his works as per collaborator's/licenser's design, manufacturing and quality control system.

**(Data to be furnished in line with format given at 1.00.00 of this Attachment)**

Signature of authorized signatory.....