|  |  |
| --- | --- |
| Date: | .............................. |
| Revision: | .............................. |
|  | Please mark every revision with another color. |

Questionnaire for alternator design data for “overhung” mounting of hydro turbine rotors

|  |
| --- |
| Contact details |
| Company name | ............................................................................................ |
| Person in charge | ............................................................................................ |
| Street | ............................................................................................ |
| Country/Zip Code/City | ............................................................................................ |
| Phone | ............................................................................................ |
| Fax | ............................................................................................ |
| E-Mail | ............................................................................................ |
|  |
| General project data |
| 1 | Project Name | .................................................................................................... |
| 2 | Project location | …………………………………………………………………. |
| 3 | Type of prime mover | …………………………………………………………………. |
| 4 | Application | …………………………………………………………………. |
| 5 | No of units | …………………………………………………………………. pcs. |



|  |
| --- |
| Generator design data |
| 6 | Shaft Overlength L | .............................. mm |
| 7 | Axial thrust Fa | …........................... kN |
| 8 | If Pelton: Number of jets | …........................... jets |
| 9 | Radial force per jet Fx | .............................. kN |
| 10 | Resulting radial force Fr | .............................. kN |
| 11 | Mass of runner | .............................. kg |
| 12 | Inertia of runner | .............................. kgm² |
| 13 | Rated speed | .............................. rpm |
| 14 | Runaway speed | .............................. rpm |
| 15 | Duration of runaway speed | .............................. min |
| 16 | Required inertia I of alternator, if any | .............................. kgm² |
| 17 | *or:* Required GD² of alternator, if any | .............................. kgm² |
| 18 | Rated output | .............................. kVA |
| 19 | Power Factor | ..............................  |
| 20 | Rated voltage | .............................. kV ± | .............................. % |
| 21 | Frequency | .............................. Hz ± | .............................. % |
| 22 | Rated speed | .............................. rpm ± | .............................. % |
| 23 | Cooling mode | ..............................  |
| 24 | Enclosure type | ..............................  |
| 25 | Site altitude | .............................. m.a.s.l. |
| 26 | Ambient air temperature | .............................. °C |
| 27 | Cooling water temperature | .............................. °C |
| 28 | Temperature rise limit, if any | .............................. °C |