## SPECIAL PURPOSE STEAM TURBINE SPECIFICATION SHEET

### Client:
- **Project Title:**
- **Job No.:**
- **Doc. No.:**

### Applicable to:
- **Proposal**
- **Purchase**
- **As Built**

### Site:
- **Model No.:**
- **Type:**

### Manufacturer:
- **No. Required:**
- **Serial No.:**

### Operating Conditions

#### Indicate Guarantee Point by (*)

<table>
<thead>
<tr>
<th>Power, kW</th>
<th>Speed, RPM</th>
<th>KG/KW-HR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RATED</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>NORMAL</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Steam Conditions

- **Inlet Steam**
- **Exhaust Steam**
- **Extraction**

#### Steam Rates Based on Output Shaft of:
- **Turbo**
- **Gear**

#### Exhaust Enthalpy @ Rated Point

- **KCAL/KG**

#### Temperature @ Rated Point

- **°C**

### SPEEDS

- **Max Continuous RPM, Trip RPM**
- **Critical (Damped) 1ST RPM, 2ND RPM**
- **Rigid Support 1ST RPM, 2ND RPM**

### Contraction Features

#### Turbine Type
- **Horizontal**
- **Vertical**
- **Single Valve**
- **Multi Valve**
- **No. Of Stages**
- **Impulse**
- **Reaction**
- **Overspeed Trip Device**
- **Mech.**
- **Elect.**
- **Hyd.**
- **Casing Split**
- **Horizontal**
- **Vertical**
- **Rotor**
- **Solid**
- **Built-Up**
- **Combination**
- **Rotation, Viewed From Gov.**
- **CW**
- **CCW**
- **Exhaust Flow**
- **Single**
- **Double**

#### Governor Type
- **Electronic**
- **Hydraulic**
- **Oil Relay**
- **Direct Act.**
- **Nema Class**
- **Governor Mfr.**
- **Model**
- **Sync. Motor**
- **KW**
- **Oil Cooler**
- **Oil Heater**
- **Power Cylinder**
- **Governor Purge Required**
- **Stainless Steel Pins & Bushing in Gov. Linkage**
- **Isocronous Control**
- **Speed Drop Control**
- **Speed Changer**
- **Manual**
- **Pneum.**
- **Electr.**

### Valves

- **No. Auto Gov. Valves**
- **No. Auto Extr. Valves**
- **No. Auto Adm. Valves**
- **Separate Trip & Throttle Valve**
- **Hyd.**
- **Mech.**
- **Remote Trip**
- **Manual Actuation**
- **Spring Support Req’d**
- **Manual Excisers**
- **Extraction Non-Return Valve**
- **Hyd.**
- **Mech.**
- **Remote Trip**
- **Manual Actuation**
- **Admission Stop Valve**
- **Hyd.**
- **Mech.**
- **Remote Trip**
- **Manual Actuation**
- **Auto Valve Arranged Close On Trip**
- **Yes**
- **No**

### Blades (Buckets)

- **Tip Speed m/s**
- **Max. Cont.: 1st Stg**
- **Final Stg**
- **Final Stage Blade Length**
- **mm**
- **Base Dia.**
- **mm**
- **Nozzle Ring:**
- **Admission**
- **Welded**
- **Removable**
- **Blade Root:**
- **1st Stg**
- **Dove tail**
- **"T"**
- **Fir Tree**
- **Final Stg**
- **Dove tail**
- **"T"**
- **Fir Tree**
- **Shrouds:**
- **Welded**
- **Riveted**
- **Wire Damp**

### Notes:
- **Indicates Information to Be Completed by:**
- **Purchaser**
- **manufacturer**

---

**Revision:**
- 1
- 2
- 3

**Made:**
- **Client:**
- **Project Title:**
- **Job No.:**
- **Doc. No.:**

**Date:**
- **Date:**
- **Date:**

---

**Site Data**

- **Elevation:**
- **Bar:**
- **kg/cm²A**

- **Temperature:**
- **Summer:**
- **Winter:**
- **°C**

- **Relative Humidity:**
- **Design Wet Bulb:**
- **%**

- **Unusual Conditions**
- **Dust**
- **Fumes**
- **Other**

---

**Construction Features**

**Governor Type**

- **Electronic**
- **Hydraulic**
- **Oil Relay**
- **Direct Act.**
- **Nema Class**
- **Governor Mfr.**
- **Model**
- **Sync. Motor**
- **KW**
- **Oil Cooler**
- **Oil Heater**
- **Power Cylinder**
- **Governor Purge Required**
- **Stainless Steel Pins & Bushing in Gov. Linkage**
- **Isocronous Control**
- **Speed Drop Control**
- **Speed Changer**
- **Manual**
- **Pneum.**
- **Electr.**

---

**Valves**

- **No. Auto Gov. Valves**
- **No. Auto Extr. Valves**
- **No. Auto Adm. Valves**
- **Separate Trip & Throttle Valve**
- **Hyd.**
- **Mech.**
- **Remote Trip**
- **Manual Actuation**
- **Spring Support Req’d**
- **Manual Excisers**
- **Extraction Non-Return Valve**
- **Hyd.**
- **Mech.**
- **Remote Trip**
- **Manual Actuation**
- **Admission Stop Valve**
- **Hyd.**
- **Mech.**
- **Remote Trip**
- **Manual Actuation**
- **Auto Valve Arranged Close On Trip**
- **Yes**
- **No**

---

**Blades (Buckets):**

- **Tip Speed m/s**
- **Max. Cont.: 1st Stg**
- **Final Stg**
- **Final Stage Blade Length**
- **mm**
- **Base Dia.**
- **mm**
- **Nozzle Ring:**
- **Admission**
- **Welded**
- **Removable**
- **Blade Root:**
- **1st Stg**
- **Dove tail**
- **"T"**
- **Fir Tree**
- **Final Stg**
- **Dove tail**
- **"T"**
- **Fir Tree**
- **Shrouds:**
- **Welded**
- **Riveted**
- **Wire Damp**

---

**Notes:**
- **Indicates Information to Be Completed by:**
- **Purchaser**
- **Manufacturer**

---

**Location**

- **Indoor**
- **Heated**
- **Under Roof**
- **Outdoor**
- **Unheated**
- **Partial Side**
- **Grade**
- **Mezzanine**
- **Winterization**
- **Tropicalization**

---

**Notes:**
## Construction Features

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rotor</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Bearings Span (mm)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Shaft Dia. (mm) @ 1st Disc</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Shaft Dia. @ End Gland Seal</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Main Connections

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inlet</strong></td>
<td><strong>Exhaust</strong></td>
<td><strong>Extr./Adm.</strong></td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td><strong>ANSI</strong></td>
<td><strong>Rating</strong></td>
</tr>
</tbody>
</table>

## Allowable Forces and Moments

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inlet</strong></td>
<td><strong>Exhaust</strong></td>
<td><strong>Extr./Adm.</strong></td>
</tr>
<tr>
<td><strong>Force, Moment (kg/cm² G, kg, kg-m)</strong></td>
<td><strong>Force, Moment (kg/cm² G, kg, kg-m)</strong></td>
<td><strong>Force, Moment (kg/cm² G, kg, kg-m)</strong></td>
</tr>
</tbody>
</table>

## Other Connections

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lube Oil Inlet</strong></td>
<td><strong>Lube Oil Outlet</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Gland Cond./Dr Conn.</strong></td>
<td><strong>Staging Drain</strong></td>
<td><strong>Steam Ring Drain</strong></td>
</tr>
<tr>
<td><strong>T &amp; T Valve H.P. Steam Leakoff</strong></td>
<td><strong>T &amp; T Valve L.P. Steam Leakoff</strong></td>
<td><strong>T &amp; T Valve Above</strong></td>
</tr>
<tr>
<td><strong>T &amp; T Valve Bellow</strong></td>
<td><strong>Seat Drain</strong></td>
<td><strong>Seat Drain</strong></td>
</tr>
<tr>
<td><strong>Cooling Water Conn.</strong></td>
<td><strong>Purge For Bearing Housing</strong></td>
<td><strong>Exhaust Conn.</strong></td>
</tr>
</tbody>
</table>

## Base Plates & Sole Plates

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Plate by</strong></td>
<td><strong>Decked With Non Skid Deck Plate</strong></td>
</tr>
<tr>
<td><strong>Drift Rim</strong></td>
<td><strong>Open Construction</strong></td>
</tr>
<tr>
<td><strong>Under Turbine Only</strong></td>
<td><strong>Other</strong></td>
</tr>
<tr>
<td><strong>Sole Plate by</strong></td>
<td><strong>Horiz. Adjusting Screws for Equipment</strong></td>
</tr>
<tr>
<td><strong>Furnish S.S. Shims</strong></td>
<td><strong>Foundation Bolts Furn By</strong></td>
</tr>
<tr>
<td><strong>Leveling (Chock) Blocks Req'd</strong></td>
<td><strong>Vendor</strong></td>
</tr>
</tbody>
</table>

## Reference Specifications

- API 612 Special Purpose Steam Turbine
# SPECIFICATION SHEET (CONTINUED)

## UTILITIES

<table>
<thead>
<tr>
<th></th>
<th>NORMAL</th>
<th>MAX.</th>
<th>DESIGN</th>
<th>MAX. TEMP. RISE ALLOWED</th>
<th>QUANTITY REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY PRESS.</td>
<td>kg/cm² G</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUPPLY TEMP.</td>
<td>°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRESSURE DROP</td>
<td>kg/cm²</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## AUXILIARY STEAM SUPPLY

<table>
<thead>
<tr>
<th></th>
<th>NORMAL</th>
<th>MAX.</th>
<th>DESIGN</th>
<th>QUANTITY REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY PRESS.</td>
<td>kg/cm² G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUPPLY TEMP.</td>
<td>°C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## INSTRUMENT AIR SUPPLY

<table>
<thead>
<tr>
<th></th>
<th>AUXILIARY MOTORS</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPLY PRESS.</td>
<td>kg/cm² G</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## INSTRUMENTATION

**GAUGE READOUT IN**
- ☐ ENGLISH
- ☐ SI
- ☐ DUAL
- ☐ OTHER

**NOTE:**
- ☐ SUPPLIED BY VENDOR
- ☐ SUPPLIED BY PURCHASER
- ☐ LOCATED ON A MACHINE MOUNTED INSTRUMENT BOARD

## PRESSURE GAGE REQUIREMENTS

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>LOCALLY MOUNTED PANEL</th>
<th>FUNCTION</th>
<th>LOCALLY MOUNTED PANEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUBE OIL PUMP DISCHARGE</td>
<td>☐ ☐ ✗ ☐</td>
<td>1st STAGE STEAM</td>
<td>☐ ☐ ✗ ☐</td>
</tr>
<tr>
<td>LUBE OIL FILTER</td>
<td>☐ ☐ ☐ ☐</td>
<td>STEAM CHEST</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>LUBE OIL SUPPLY</td>
<td>☐ ☐ ☐ ☐</td>
<td>EXHAUST STEAM</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>GOV. CONTROL OIL</td>
<td>☐ ☐ ☐ ☐</td>
<td>EXTRACTION STEAM</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>GOV. CONTROL OIL</td>
<td>☐ ☐ ☐ ☐</td>
<td>STEAM EJECTOR</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>COUPLING OIL</td>
<td>☐ ☐ ☐ ☐</td>
<td>STEAM SEAL</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>MAIN STEAM INLET</td>
<td>☐ ☐ ☐ ☐</td>
<td></td>
<td>☐ ☐ ☐ ☐</td>
</tr>
</tbody>
</table>

## TEMPERATURE GAGE REQUIREMENTS

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>LOCALLY MOUNTED PANEL</th>
<th>FUNCTION</th>
<th>LOCALLY MOUNTED PANEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUBE OIL DISCHARGE FROM EACH</td>
<td>☐ ☐ ☐ ☐</td>
<td>COOLING OIL INLET &amp; OUTLET</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>TURBINE JOURNAL BEARING</td>
<td>☐ ☐ ☐ ☐</td>
<td>STEAM INLET</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>TURBINE THRUST BEARING</td>
<td>☐ ☐ ☐ ☐</td>
<td>STEAM EXHAUST</td>
<td>☐ ☐ ☐ ☐</td>
</tr>
<tr>
<td>GEAR JOURNAL BEARING</td>
<td>☐ ☐ ☐ ☐</td>
<td></td>
<td>☐ ☐ ☐ ☐</td>
</tr>
</tbody>
</table>

## ALARMS & SHUTDOWN FUNCTIONS

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>PRE</th>
<th>ALARM</th>
<th>TRIP</th>
<th>FUNCTION</th>
<th>PRE</th>
<th>ALARM</th>
<th>TRIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW LUBE OIL PRESS. EACH LEVEL</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>TURBINE VIBRATION</td>
<td>☐ ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HI OIL FILTER</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>TURBINE AXIAL POSITION</td>
<td>☐ ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUX. LUBE OIL PUMP START</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>TRIP &amp; THROTTLE VALVE POSITION</td>
<td>☐ ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HI LUBE OIL OUTLET TEMP.</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>HI TURBINE STEAM SEAL LEAKAGE</td>
<td>☐ ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOW CONTROL OIL PRESSURE</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>HI TURBINE EXHAUST PRESSURE</td>
<td>☐ ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>HI TURBINE EXTRACTED PRESSURE</td>
<td>☐ ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>TURB. OVERSPEED TRIP OPERATION</td>
<td>☐ ☐</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## MISCELLANEOUS INSTRUMENTATIONS

- ☐ TURBINE SPEED PICK UP DEVICE ☐ ELECTRONIC ☐ OTHER ☐ TURBINE SPEED INDICATORS

TURBINE SPEED INDICATORS LOCATED ON:
- ☐ LOCAL PANEL
- ☐ MAIN BOARD
- TYPE: ☐ DIGITAL ☐ DIAL GAGE

- ☐ REMOTE HAND SPEED CHANGER-MOUNTED ON:
- ☐ LOCAL PANEL
- ☐ CONTROL ROOM

- ☐ ALARM HORN & ACKNOWLEDGEMENT SWITCH ON:
- ☐ LOCAL PANEL
- ☐ CONTROL ROOM

- ☐
**SPECIAL PURPOSE STEAM TURBINE**  
**SPECIFICATION SHEET (CONTINUED)**

<table>
<thead>
<tr>
<th>COUPLING</th>
<th>VIBRATION DETECTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ MOUNT 1/2 COUPLING</td>
<td>□ TYPE</td>
</tr>
<tr>
<td>□ MFR.</td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ SPACER REQ'D</td>
<td>□ TYPE</td>
</tr>
<tr>
<td></td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ COUPLING FURNISHED BY</td>
<td>□ TYPE</td>
</tr>
<tr>
<td></td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ KEYED (1) OR (2); OR HYDR. FIT</td>
<td>□ TYPE</td>
</tr>
<tr>
<td></td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ CPLG. COEF. FRICTION: GEAR PITCH DIA.(mm):</td>
<td>□ TYPE</td>
</tr>
<tr>
<td></td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ TURBINE SHAFT: TAPER CYLIND'L DIA.(mm):</td>
<td>□ TYPE</td>
</tr>
<tr>
<td></td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ GENERATOR SHAFT: TAPER CYLIND'L DIA.(mm):</td>
<td>□ TYPE</td>
</tr>
<tr>
<td></td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ COUPLING GUARD: □ MFR. STD. □ OTHER</td>
<td>□ TYPE</td>
</tr>
<tr>
<td></td>
<td>□ MODEL</td>
</tr>
<tr>
<td>□ LUBRICATION REQ'D</td>
<td>□ YES □ NO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPOSITE TORSIONAL ANALYSIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ REQUIRED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LATERAL CRITICAL SPEED ANALYSIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ REQUIRED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SHOP INSPECTION AND TESTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ SHOP INSPECTION</td>
</tr>
<tr>
<td>□ HYDROSTATIC(PINING,CASING,CONDENSER)</td>
</tr>
<tr>
<td>□ BLADE SHAKER (STATIC) □ ROWS</td>
</tr>
<tr>
<td>□ ROTOR BALANCE: □ VACUUM PIT □ STD.</td>
</tr>
<tr>
<td>□ ROTOR THERMAL STABILITY</td>
</tr>
<tr>
<td>□ MECHANICAL RUN: □ W/JOB CPLG. 1/2</td>
</tr>
<tr>
<td>□ RUN SPARE ROTOR □ W/JOB CPLG. 1/2</td>
</tr>
<tr>
<td>□ FUNCTIONAL TEST: □ T &amp; T VALVE</td>
</tr>
<tr>
<td>□ □ TURNING GEAR</td>
</tr>
<tr>
<td>□ □ GLAND CONDENSER</td>
</tr>
<tr>
<td>□ □ SEALING DEVICE</td>
</tr>
<tr>
<td>□ LUBE OIL SYSTEM</td>
</tr>
<tr>
<td>□ GOVERNOR STABILITY</td>
</tr>
<tr>
<td>□ TURBINE RUN AT OVERSPEED AND TRIP</td>
</tr>
<tr>
<td>□ USE SHOP LUBE SYSTEM</td>
</tr>
<tr>
<td>□ USE JOB LUBE SYSTEM</td>
</tr>
<tr>
<td>□ USE JOB VIBRATION &amp; DISPL. PROBES ETC.</td>
</tr>
<tr>
<td>□ OSCILLATOR-DEMODULATORS &amp; MONITOR</td>
</tr>
<tr>
<td>□ USE SHOP VIBRATION PROBES ETC.</td>
</tr>
<tr>
<td>□ X-Y-Y&quot; PLOT</td>
</tr>
<tr>
<td>□ CHECK BEARING &amp; SEALS AFTER TEST</td>
</tr>
<tr>
<td>□ NOISE LEVEL TEST</td>
</tr>
<tr>
<td>□ PREPARATION FOR SHIPMENT</td>
</tr>
<tr>
<td>□ FM TAPE RECORDING (VIBRATION)</td>
</tr>
<tr>
<td>□ CLEANLINESS INSPECTION (API 612)</td>
</tr>
<tr>
<td>□ HARDNESS TEST (API 612)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OIL REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ MAX. QUANTITY (lt/min)</td>
</tr>
<tr>
<td>□ PRESSURE, kg/cm² G</td>
</tr>
<tr>
<td>□ TEMPERATURE °C</td>
</tr>
<tr>
<td>□ TOTAL HEAT REJECTED, kcal/hr</td>
</tr>
<tr>
<td>□ OIL REQUIRED FOR □ T &amp; T VALVE</td>
</tr>
<tr>
<td>□ OIL VISCOSITY □ cSt @ 32 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THERMISTORS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Temp. Switch &amp; Indicator By: □ Purchaser □ Mfr.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THERMOCOUPLES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Selector Switch &amp; Indicator By: □ Purchaser □ Mfr.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RESISTANCE TEMP. DETECTORS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Resistance Material: □ OHM</td>
</tr>
<tr>
<td>□ Selector Switch &amp; Indicator By: □ Purchaser □ Mfr.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LOCATION OF JOURNAL BEARING:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ No. □ Ea. □ Pad □ Every Other □ Pad □ Per Bearing</td>
</tr>
<tr>
<td>□ Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LOCATION OF THRUST BEARING:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ No.(Active): □ Ea. □ Pad □ Every Other □ Pad □ Per Bearing</td>
</tr>
<tr>
<td>□ Other</td>
</tr>
<tr>
<td>□ No.(Inactive): □ Ea. □ Pad □ Every Other □ Pad □ Per Bearing</td>
</tr>
<tr>
<td>□ Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAXIMUM BEARING TEMPERATURE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ °C FOR ALARM □ °C FOR SHUTDOWN</td>
</tr>
</tbody>
</table>

**REMARK:**
### Instrumentation

#### Exhaust Relief Valve Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Set Pressure</td>
<td>kg/cm² G. Exhaust</td>
</tr>
<tr>
<td>Steam Row</td>
<td>kg/hr</td>
</tr>
<tr>
<td>Supplied By</td>
<td>PURCHASER</td>
</tr>
</tbody>
</table>

#### Extraction Relief Valve Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Set Pressure</td>
<td>kg/cm² G. Extraction</td>
</tr>
<tr>
<td>Steam Row</td>
<td>kg/hr</td>
</tr>
<tr>
<td>Supplied By</td>
<td>PURCHASER</td>
</tr>
</tbody>
</table>

#### Local Control Panel

- **Furnished By:** Vendor, Purchaser, Other
- **Free Standing:** ☐ Weather Proof ☐ Totally Enclosed ☐ Extra Cutouts
- **Vibration Asciator:** ☐ Strip Heater ☐ Purge Connection ☐ With Doors
- **Annunciator:** Furnished By Vendor, Purchaser, Other
- **Annunciator Located On:** Local Panel, Control Room, Main Control Board
- **Customer Connections:** Brought Out To Terminal Boxes By Vendor

#### Remarks:

- Normal Condition is: When Turbine is in Operation

#### Instrument Suppliers

- **Following List**: ☐ Refer to "Data Sheet for Instrument Doc./Dwg. No.

#### Switches

- **Enclosures:** ☐ Explosion Proof ☐ Weather Proof ☐ Other
- **Alarm Contacts Shall:** ☐ Open ☐ Close to Sound Alarm - and Be Normally Energized ☐ De-Energized
- **Shutdown Contact Shall:** ☐ Open ☐ Close to Trip - End Be Normally Energized ☐ De-Energized

#### Miscellaneous

- **Pre-Alarm and Shutdown Switches Shall Be Separate**
- **Purchaser's Electrical and Instrument Connections Within the Confines of the Baseplate and Console Shall Be:** ☐ Brought Out to Terminal Boxes ☐ Made Directly by Purchaser

#### Purchaser's Comments:

---

### Instrument Suppliers

- **Pressure Gages:** MFR. ☐ SIZE & TYPE:
- **Temperature Gages:** MFR. ☐ SIZE & TYPE:
- **Level Gages:** MFR. ☐ SIZE & TYPE:
- **Diff. Pressure Switches:** MFR. ☐ SIZE & TYPE:
- **Temperature Switches:** MFR. ☐ SIZE & TYPE:
- **Level Switches:** MFR. ☐ SIZE & TYPE:
- **Control Valves:** MFR. ☐ SIZE & TYPE:
- **Pressure Relief Valves:** MFR. ☐ SIZE & TYPE:
- **Thermal Relief Valves:** MFR. ☐ SIZE & TYPE:
- **Sight Flow Indicators:** MFR. ☐ SIZE & TYPE:
- **Vibration Equipment:** MFR. ☐ SIZE & TYPE:
- **Tachometer:** MFR. ☐ SIZE & TYPE:
- **Solenoid Valves:** MFR. ☐ SIZE & TYPE:
- **Annunciator:** MFR. ☐ SIZE & TYPE:
- **Thermocouples:** MFR. ☐ SIZE & TYPE:
- **Resistance Temp. Detectors:** MFR. ☐ SIZE & TYPE:
- **Thermowell:** MFR. ☐ SIZE & TYPE:
- **Switches:** ☐ EXPLOSION PROOF ☐ WEATHER PROOF ☐ OTHER
<table>
<thead>
<tr>
<th>Job No.</th>
<th>Item No.</th>
<th>Doc. No.</th>
<th>Made By</th>
<th>Rev.</th>
<th>Date</th>
</tr>
</thead>
</table>

**SPECIAL PURPOSE STEAM TURBINE**

**SPECIFICATION SHEET (CONTINUED)**

1. **Gears**
   - Separate Datasheet Attached
   - Special Purpose Gear Required
   - Gear Furnished By:

2. **Weight**
   - Turbine
   - Rotor
   - Turbine Upper 1/2 Casing
   - Max. For Maintenance (Identify)
   - Total Shipping Weight

3. **Oil System**
   - Furnished By:
     - Turbine Mfr.
     - Others
   - Common With Driven Equipment
   - Stainless Steel Oil Supply Header Piping
   - Oil Drain Header Piping
   - ST. Steel
   - C.S.

4. **Emergency Turning-Gear**
   - Turning Gear Req’d
   - Quick Start Required
   - Mfr.
   - Model
   - Ratio
   - Motor Electric
     - KW
     - VOLTS
     - AC
     - DC
   - Pneumatic
     - kg/cm²
     - G
     - °C
     - Nm/3/hr
   - Auto Engage
   - Manual Engage

5. **Painting**
   - Manufacturer’s Standard
   - Other

6. **Shipment**
   - Domestic
   - Export
   - Export Boxing Req’d
   - Outdoor Storage Over 6
   - Water Proof Boxing Req’d
     - (SIX) MONTHS
   - Spare Rotor Boxing Req’d
   - Horizontal Storage
   - Vertical Storage

7. **Sketch:**

8. **Remarks:**
   - 
   - 
   - 
   - 
   - 
   - 
   - 
   - 

9. **Miscellaneous**
   - Provisions For Field Balancing
   - Vendor’s Review and Comment On Purchaser’s Piping and Foundation Drawings Required
   - Shaft Grounding Devices
   - “Y” Type Strainer For
   - Water Washing Connections
   - Optical Alignment Flats
   - Insulation (Lagging) Required
   - Jacket Required
   - Axial Alignment Key
   - Blade Diagrams
     - Campbell
     - Goodman
     - Soderberg
     - Other
   - Metric / English / SI
     - Drawings
     - External Flanges
     - Internal Bolting and Threads

---

### Gear Weight

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine</td>
<td></td>
</tr>
<tr>
<td>Rotor</td>
<td></td>
</tr>
<tr>
<td>Upper 1/2 Casing</td>
<td></td>
</tr>
<tr>
<td>Max. For Maintenance</td>
<td></td>
</tr>
</tbody>
</table>

### Oil System Furnished By

<table>
<thead>
<tr>
<th>Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine Mfr.</td>
<td>Oil Supply Header Piping</td>
</tr>
</tbody>
</table>

### Emergency Turning Gear

- **Ratio:**
  - Motor Electric
    - **KW:**
    - VOLTS: AC, DC
  - Pneumatic
    - kg/cm²
    - G
    - °C
    - Nm/3/hr
  - Auto Engage
  - Manual Engage

### Painting

- Manufacturer’s Standard
- Other

### Shipment

- Domestic
- Export
- Export Boxing Req’d
- Outdoor Storage Over 6
- Water Proof Boxing Req’d
  - (SIX) MONTHS
- Spare Rotor Boxing Req’d
  - Horizontal Storage
  - Vertical Storage

### Sketch

---

### Remarks

- 
- 
- 
- 
- 
- 
- 
- 

---