

Ref: BHE/PW/PUR/BWT6-LP PIPING/2230/Corr-02/Clarifications

Dt: 06/02/2020

To  
ALL BIDDERS

**Sub: Corrigendum-02: Clarifications**

**Job:** Handling at site stores / storage yard, transporting to site, inspection, preassembly, erection, alignment, welding, NDT, fixing of hangers & supports, chemical cleaning / pickling, oil flushing, water flushing, hydro testing & steam blowing, surface finish, supply & application of primer & finish paints/ Anti corrosive / Wrapping and coating as applicable including labelling & flow direction on the piping / over insulation & hangers and supports, pre-commissioning, commissioning, trial operation & handing over to customer for, LP piping and its associated items, CW & ACW water system, Fire protection system, Valves, Fittings, Hangers & Supports and Insulation of 1x660MW, Unit-6, Bhusawal TPS, Bhusawal.

**E-Tender Specification Number:** BHE/PW/PUR/BWT6-LP PIPING/2230

Bidders to kindly take note of the following:

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**AA) Clarifications**

SI No	Reference clause of Tender Document	Existing provision Bidder's query BHEL's clarification	Existing provision Bidder's query BHEL's clarification	Existing provision Bidder's query BHEL's clarification
	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – II: Scope of Works Page 44 of 196	2.1 - The scope of work for the package as follows: Handling at site stores / storage yard, transporting to site, inspection, preassembly, erection, alignment, welding, NDT, fixing of hangers & supports, chemical cleaning / pickling, oil flushing, water flushing, hydro testing & steam blowing, surface finish, supply & application of primer & finish paints/ Anti corrosive / Wrapping and coating as applicable including labelling & flow direction on the piping / over insulation & hangers and supports, pre-commissioning, commissioning, trial operation & handing over to customer for, LP piping and its associated items, CW & ACW water system, Fire protection system, Valves, Fittings, Hangers & Supports and Insulation.	With reference to scope of work specified please furnish following details: 1. Size and Quantity of buried pipework (CW and Others) in Mtrs or Quantity of Wrapping Coating material in M2.  2. Size and Quantity for Pipework requiring chemical cleaning / pickling, oil flushing.  Also please clarify that quantity of Valves, Equipments and Fittings etc is included in Tonnage of Pipework indicated "Summary of Weight of BOQ under the scope", CHAPTER – IX : Estimated weight for various systems in scope of work, page 79 of 196..	Details are given in <b>Annexure-1 enclosed</b>  Details are given in <b>Annexure-1 enclosed</b>  Quantity of Valves, Equipments and Fittings etc are included in Tonnage BOQ.
2	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – II: Scope of Works Page 44 of 196	2.2 - Lifting, laying, erection, bolt tensioning, bolt torque tightening, supporting and installation, pre and post weld heat treatment, inspection, non-destructive testing including radiography and hydrostatic test, water / steam flushing, air drying, nitrogen purging and	Please clarify the scope of work with regard to : 1. Pre and Post Weld heat treatment.  2. Nitrogen purging.	Refer welding schedule attached in Vol-IE.  Argon purging shall be done as per welding procedure/Welding manual.

		other testing of piping installations, above and below ground.		
3	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – II: Scope of Works Page 49 of 196	The erection/commissioning of LP piping system, CW & ACW system and fire protection system has to be completed in all respects by the contractor. It may also be required to erect Valves/control valves/Bellows/ steam-traps, orifice, flow nozzles, fittings, Hanger & Supports etc. of PEM/Piping Centre/Trichy/Bhopal/PESD etc scope supply for completion of the system, with no extra cost to BHEL.	Please clarify that scope of work does not include for Supply of any material including Paint material.  Materials, which form a part of this EPC work are indicated in " CHAPTER – IX : Estimated weight for various systems in scope of work" and in case any other material or additional material is required to be erected, same shall be paid for according to available unit rates.	Refer chapter TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVII : Painting.  Any additional item erected for system completion as per instruction of BHEL engineer, shall be payable as per applicable unit rates.
4	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – II: Scope of Works Page 49 of 196	Note: a. The materials that will go as a part of the permanent system of the plant will be supplied by BHEL at free of any charges. Pipes, valves, flanges, fittings, fasteners.	1. Pipes in all sizes shall be supplied in ready to erect condition and no rolling and welding (fabrication) of Large Dia Pipes are involved.  2. Pipes shall be supplied in a length of 10-12 mtrs each.  3. Pipe fittings including Mitre Fittings for all sizes of pipes shall be provided as free issue. It is considered that fabrication of Mitre fittings is not included in bidders	1. Large dia pipes will be supplied in running length to be cut and welded at site. Rolling & fabrication is not included in the scope. 2. Large dia pipes (>nb500) will be supplied in range of 10m to 14 m and other sizes will be in range of 6 to 12 m. 3. Tender condition shall prevail.

			<p>scope.</p> <p>4. Flanges/End cap shall be supplied in ready made condition.</p> <p>Also clarify that all flanged end equipments and valves which are supplied as free issue material shall be supplied along with necessary companion flanges and nuts, bolts and gaskets.</p>	<p>4. Flanges/End cap shall be supplied in as received from Mfg Units in ready made condition.</p> <p>Companion flanges and nuts, bolts and gaskets shall be supplied by BHEL as free issue.</p>
5	<p>TECHNICAL CONDITIONS OF CONTRACT (TCC)</p> <p>Chapter – II: Scope of Works</p> <p>Page 49 of 196</p>	<p>2.20 Supply and application of final painting, wrapping and coating. The scope includes the supply and application of final painting for the systems/items/components covered in the entire scope of work including supply of primer, paints and associated consumables</p>	<p>It is noted that Supply of Paint material is included for only final painting work under the scope of this tender and no surface preparation and supply and application of primer is included under bidders scope.</p> <p>Inside surface painting, if any, is excluded from the scope of this tender.</p>	<p>Refer chapter TECHNICAL CONDITIONS OF CONTRACT (TCC)</p> <p>CHAPTER – XVII : Painting.</p> <p>Tender condition shall prevail.</p>

6	Chapter – V: T&Ps and MME to be deployed by BHEL on sharing basis, 5.1 LIST OF T&P TO BE PROVIDED BY BHEL FREE OF HIRE CHARGES ON SHARING BASIS. Page 67 Of 196	All cranes (except Contractor scope) required for mentioned work will be arranged by BHEL as per requirement.	It is noted and price shall be based accordingly.	Tender condition shall prevail.
7	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – VI: TIME SCHEDULE Page 70 of 196	6.4 CONTRACT PERIOD The contract period for completion of entire work under scope of this packages shall be 28 (Twenty Eight) months from the “START OF CONTRACT PERIOD” as specified earlier for completion of the entire work.	Clause 6.3 specify the milestone schedule with completion of work as 31-May-2022.  Please clarify the contract period to be considered.	Contract period shall be 28 (Twenty Eight) months from the “START OF CONTRACT PERIOD”.
8	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – VII: TERMS OF	7.0 Terms of Payment:	Please allow interest free mobilization advance @10% of the contract value against submission of Bank Guarantee of eqvt value.  Further, 15% payment shall not be linked	Tender condition shall prevail.

	PAYMENT Page 72 of 196		achievement of stage/milestone events which are not related to envisaged work.	
9	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – IX : Estimated weight for various systems in scope of work (BOQ) Page 106 of 196	XIV TESTS TO BE CONDUCTED	Please clarify that scope of work for NDT as mentioned under this item is to be included in the price and no other test is required.	Refer welding schedule attached in Vol-I-E
10	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XIV : Erection Page 154 of 196	14.161 The contractor may have to carry out fabrication of mitre bends, tees, reducer of sizes NB 250 and above for LP piping systems. Pipes will be supplied in running meters by BHEL free cost. Required number of mitre bends, tees is to be fabricated by the LP piping erection contractor. Payment shall be made as per applicable item of price schedule.	This clause shall not applicable since there is no such item in the Price Schedule.  Fittings in all sizes shall be supplied by BHEL free of cost and no Mitre / fabrication work is to included in offer.	Tender condition shall prevail.

11	<p>TECHNICAL CONDITIONS OF CONTRACT (TCC)</p> <p>CHAPTER – XV : Welding, Heat Treatment &amp; Radiography and Non-destructive Testing</p> <p>Page 163 of 196</p>	<p>NDT and PWHT of, Piping shall be guided by the site erection welding schedule and field quality plans.</p>	<p>Please provide same to include price for NDT and PWHT accordingly in offer.</p> <p>We however note that clause 15.57 c specifies following NDT test:</p> <p>c) For all other pipes not covered above, shall be subjected 100% MPE/ DPT in case of under ground pipes and 10% MPE/DPT in case of piping above the ground. Further, 10% of butt welds of underground piping shall be subjected to RT.</p> <p>Please confirm above guidelines are to be followed for NDT for this piping tender.</p>	<p>NDT and PWHT of Piping shall be guided by the site erection welding schedule, welding manual and field quality plans.</p>
12	<p>TECHNICAL CONDITIONS OF CONTRACT (TCC)</p> <p>CHAPTER – XVI : Testing, Pre-commissioning, Commissioning</p> <p>BHEL-PSWR</p> <p>Page 165 of 196</p>	<p>Hydraulic testing</p>	<p>Water required for Hydraulic testing shall be provided by BHEL as free of charge.</p>	<p>Water for hydraulic test of pipes shall be provided by BHEL free of charge.</p>

13	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVIII : Coating and Wrapping Page 182 of 196	1.6. Wherever Road/Rail crossings are envisaged, they will be provided with RCC encasement.	RCC encasement work, if any, is excluded from our scope of work.	RCC encasement are excluded from the scope of work.
14	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVIII : Coating and Wrapping Page 183 of 196	2. Protection of Internal Surface for buried pipe ( For pipe dia 450NB and above)	Please furnish size and quantity of pipe for dia 450 and above to work out the quantum of internal painting. Or else furnish the qty in M2 for such work.  We also request you to make painting work a line item in price schedule since this activity is of large value work.	Pl refer amendment and also refer <b>Annexure-1 enclosed</b>  Tender condition shall prevail
15	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVIII : Coating and Wrapping Page 183 of 196	3. Protection of External Surface (Over ground Piping) a. Surface cleaning by wire brush, power tools cleaning b. Application of one coat of red lead primer followed by adequate No. of finish coats of synthetic enamel paint to achieve total dry film thickness of 200 microns.	It is considered that external surface of Over ground piping shall be painted according to this specification. Please confirm.	Refer chapter TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVII : Painting.  Also refer painting schedule/scheme given in VOI-IE



16	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XIX : Lining And Insulation Page 184 of 196	All insulations and refractory materials including iron components and other sheets casing materials, etc., required as per drawing will be supplied by BHEL and the same have to be erected / applied as per the drawings and specifications of BHEL by the contractor.	We note that all insulation material shall be supplied by BHEL as free of cost. Bidders scope of work shall be application / installation of same as per BOQ.	Read this clause along with clause no. 17.25 of CHAPTER – XVII : Painting..
17	Vol-IE Technical Specification-2230 (page 22 of 40 of pdf document) and TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVII : Painting (page 176 of 196)	Paint Schedule and 17 PAINTING	Paint specification is furnished at both places of tender documents. Please clarify which specification to be followed for this work.	Painting shall be done as per painting schedule/scheme.
18	SPECIAL CONDITIONS OF CONTRACT (SCC) Chapter - IV :	4.2.1.2 All suitable cranes, lifting and transport equipments for material handling at stores/yard/siding of BHEL/Customer are included in scope. BHEL's crane will not be available for this	We have considered that BHEL shall provide crane as mentioned in "5.1 LIST OF T&P TO BE PROVIDED BY BHEL FREE OF HIRE CHARGES ON SHARING BASIS."	Tender condition shall prevail

	Obligation of Contractor Page 9	purpose unless otherwise specifically permitted as per contract conditions	Page 67 Of 196 of Chapter – V: T&Ps and MME to be deployed by BHEL on sharing basis. Please confirm.	
19	SPECIAL CONDITIONS OF CONTRACT (SCC) Chapter - IV : Obligation of Contractor Page 14	4.2.2.17 Obligations in respect of Construction Lift/Elevators provided by BHEL Clause d specifies "The construction and dismantling of the foundations required for the construction / elevator lifts is included in the scope of the contractor.	All kind of civil work including foundations etc are excluded from the scope of this tender as per TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XII : Foundations, Groutings & Civil Works (page 130 of 196). Please confirm that this clause is not applicable for this work.	Tender condition shall prevail.
20	SPECIAL CONDITIONS OF CONTRACT (SCC) Chapter - IV : RA Bill Payments page 29	10.3 Release of payment in each running bill including PVC Bills where ever applicable will be restricted to 95% of the value of work admitted as per stages of progressive pro rata payments. 10.4 The 5% thus remaining shall be treated as Retention Amount and shall be released as per terms specified in the General Conditions of Contract.	Terms of Payment shall be as per "TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – VII: TERMS OF PAYMENT Page 72 of 196" and no retention shall be deducted from RA bill.	Tender condition shall prevails
21	General Conditions of Contract (Common for Power Sector	1.10 SECURITY DEPOSIT 1.10.1 Security Deposit means the security provided by the Contractor towards fulfillment of any obligations in	We have noted that the total amount of Security Deposit will be 5 % of the Contract Value. We shall submit the same in the form of a Bank Guarantee after award of	Tender condition shall prevails

	Regions) (Document No. PS:MSX:GCC, Rev 01)	terms of the provision of the contract. Upon acceptance of Tender, the successful Tenderer should deposit the required amount of Security Deposit for satisfactory completion of work. The total amount of Security Deposit will be 5 % of the Contract Value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.	contract which will be valid for a period of contractual completion period. Therefore there shall be no deduction of Retention Amount from our RA Bills. Please confirm.  Also please inform if any Performance Guarantee is required for this tender and its amount and validity.	
22	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter – II: Scope of Works Page 49 of 196	Note: a. The materials that will go as a part of the permanent system of the plant will be supplied by BHEL at free of any charges. Pipes, valves, flanges, fittings, fasteners.	Please clarify that all Pipes supplied by BHEL, shall have bevelled ends and bevelling of pipe ends is not included in the scope of this tender.	Tender condition shall prevail.  Also refer clause no. 14.9
23	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – IX :	Detailed (PGMA wise) weight of BOQ applicable for this package.	We do not find any Raw Water Pipework / system under the detailed BOQ. Please clarify and confirm that Raw Water Piping is not a part of this tender and all piping work shall be carried out inside plant boundary.	Raw water pipework included in PGMA 80-477. Refer BOQ.  Also refer Annexure-1 enclosed.

	Estimated weight for various systems in scope of work (BOQ)		However, during pre bid meeting, it was informed that ROW/ROU for Raw water piping, outside the plant boundry, shall be obtained and provided to the contractor by BHEL. Please clarify and confirm the scope of Raw Water Piping work..	
24	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – IX : Estimated weight for various systems in scope of work (BOQ) PAGE 105 OF 196	Quantity for painting of GI Pipes sl. No. 2 specified as 6000 m2.	Please clarify and confirm that GI and SS Piping surface do not require any cleaning and painting work.	Cleaning and painting of GI pipes of Firefighting system shall be in the scope of bidder.
<b>Amendment in existing clauses</b>				

	Ref clause of Tender Document (Vol I Tech Bid-2230)	Existing provision	Amended as														
1	Chapter III Facilities in the scope of Contractor/BHEL (Scope Matrix)	New clause 3.22 added as	3.22 The office and storage space outside of plant boundary, if required, shall be in the scope of contractor. However, BHEL may provide office space in raw water intake area subject to the availability from customer (MAHAGENCO).														
2	Chapter – IV: T&Ps and MMEs to be deployed by Contractor Clause no. 4.1.1 <b>List of major Tools &amp; Plants (T&amp;P)</b>	New row SN 39 added in the table	<table><tr><th>SN</th><th>DESCRIPTION</th><th>CAPACITY (MINIMUM)</th><th>MINIMUM QUANTITY</th><th>REMARKS</th></tr><tr><td>39</td><td>DG set</td><td>As required</td><td>01 No.</td><td>For welding of pipings outside plant boundary</td></tr></table>					SN	DESCRIPTION	CAPACITY (MINIMUM)	MINIMUM QUANTITY	REMARKS	39	DG set	As required	01 No.	For welding of pipings outside plant boundary
SN	DESCRIPTION	CAPACITY (MINIMUM)	MINIMUM QUANTITY	REMARKS													
39	DG set	As required	01 No.	For welding of pipings outside plant boundary													
3	Chapter – V: T&Ps and MMEs to be deployed by BHEL on sharing basis	New clause 5.14 added as	5.14. BHEL shall provide crane inside the plant premises only. Contractor shall make his own arrangement for the piping erection works outside plant boundary within the quoted rates.														
4	Chapter – IV: T&Ps and MMEs to be deployed by Contractor Clause no. 4.1.2	<b>Description:</b>  <b>Ladders on column</b> The minimum design live load on metallic ladder shall be a single concentrated load of 100 kilo grams. All rungs shall have a minimum	This clause Stands deleted.														

	SN 4. (Page no 64 of 196 of Vol-IA)	diameter of 1.90 centimeters, and minimum clear length of rungs shall be 40.6 centimeters. The distance between rungs shall not exceed 30.5 centimeters. Each ladder shall have maximum height of 9.0metre. The ladder shall have proper fastenings for attaching it to a column using positive means such as bolt, weld or other type of fasteners.  <b>Capacity &amp; Qty (Minimum):</b> Cumulative length of ladders is 1200 metres	
5		<b>Approved Vendor for Paints</b>	List of approved Vendors as below; 1. Asian Paints (I) Ltd 2. Berger Paints India Ltd 3. Shalimar paints Ltd 4. Nerolac 5. Jhonson & Nicholson
6		<b>Approved vendors for Anti-corrosive coal tar coating</b>	List of approved Vendors as below; 1. IWL Ltd 2. A R Laminators
7	Chapter-XVIII COATING AND WRAPPING Clause no. 1.4 Page no. 182/196	All primer / Coating / Wrapping materials and method of application shall conform to IS 10221 & AWWA –C–203-93.	All primer / Coating / Wrapping materials and method of application shall conform to AWWA–C–203-2002/ IS-15337:2003.

8	<p>Chapter-XVIII COATING AND WRAPPING Clause no. 1.5 Page no. 182/196</p>	<p>1.5 For all CW/ACW Pipe, LP Pipes, fire protection pipes, Underground Protection shall be provided for the Piping System as indicated in any one of the methods below:</p> <p>i. Pipe surfaces shall be cleaned by sand / shot blasting before application. Slag blasting may also be considered. Tests to be carried out after application:</p> <ol style="list-style-type: none"> <li>1. Bond / Adhesion test</li> <li>2. Holiday test</li> </ol> <p>ii. Coal Tar Primer, Coal Tar Enamel. Material and application of tapes shall confirm to IS1537 or equivalent. These tapes shall be applied hot over the cold tar primer in steps of 2mm thickness so as to cover the spiral edges of the first tape by the application of second tape. Total thickness of coating shall not be less than 4.0 mm.</p> <p>iii. With anti-corrosive tape of 4mm thick conforming to IS-10221 and AWWA C203-93. T&amp;Ps and instruments required</p>	<p>Clause shall read as;</p> <p>1.5 Underground protection for CW/ACW pipes, LP Pipes and fire protection pipes shall be provided as below,</p> <ol style="list-style-type: none"> <li>i. Pipe surfaces shall be cleaned by wire brush/blasting as required before application.</li> <li>ii. In case of CW/ACW and large diameter pipes outside surface of buried pipes and fittings shall be provided with; one coat of coal tar primer of approved quality followed by coal tar based synthetic primer and single layer of 4mm coal tar tape conforming to AWWA-C-203:2002/IS-15337:2003. In case of fire protection pipes, buried pipes shall be lagged with two coats and two wrap coal tar enamel and fiber glass / craft paper as per IS:10221 or corrosion protective tapes of minimum thickness of 4mm (in two layers) of coal tar type as per AWWA-C-203/IS:15337</li> <li>iii. The pipe that will be buried underground shall be spark tested after completion of wrapping of each section / field joint. Bond / adhesion test, holiday test shall be done as per requirement. All the test shall be carried out as per instruction of BHEL Engineer.</li> <li>iv. Supply of all wrapping coating materials and T&amp;Ps &amp; instruments required for above work shall be arranged by contractor within the quoted rate.</li> </ol>
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		for the above are to be arranged by the contractor within the quoted rates.	
9	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVIII : Coating and Wrapping Page 183 of 196	2. Protection of Internal Surface for buried pipe ( For pipe dia 450NB and above)	2. Protection of Internal Surface for buried pipe ( For pipe dia 600 NB and above)

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All other Terms and conditions of the Tender Specification shall remain unaltered unless expressly amended by BHEL in writing. Bidders are requested to submit as a part of Technical Bid, a copy of this corrigendum duly countersigned by the authorized signatory and stamped with the Official seal as a token of Bidder's unqualified acceptance of this corrigendum/ digitally signed.

This letter is hosted as file titled "Corrigendum-02 Clarifications" on e-Procurement Portal of BHEL i.e. <https://bhel.abcprocure.com>.

BIDDERS WHO HAVE ALREADY SUBMITTED THEIR OFFERS PRIOR TO ISSUANCE OF THIS CORRIGENDUM IN E-TENDER PORTAL ARE REQUIRED TO RE-SUBMIT THEIR OFFER AFTER TAKING COGNIZANCE OF THIS CORRIGENDUM.

Thanking you,

Yours faithfully,

AGM (Purchase)

# Annexure-1

CUST. NO	SYSTEM DESCRIPTION	PIPE SIZE	OG/UG	LENGTH	PGMA
7372	MAIN CIRCULATION WATER PIPING P/H & COOLING TOWER & A-ROW OF TG HALL	OD3240X20	UG	800	80-468
7372		OD2336X18	OG	70	80-468
7372		OD2032X18	OG	67	80-468
7372		OD1422X12	OG	30	80-468
7372		OD219.1X6.4	OG	80	80-468
7372		OD813X8	UG	350	80-468
7372		OD457.0X6.4	OG	30	80-468
7372		OD1726X14	UG	2400	80-477
7372	RAW WATER INTAKE PIPING	OD813X8	OG	2000	80-477
7372		OD813X8	OG	200	80-477
7372		OD508X6	OG	22	80-477
7372	SERVICE WATER PIPING	OD355.6X6	OG	30	80-477
7372		OD273X6	OG	40	80-477
7372		OD219.1X6	OG	35	80-477
7372		NB150X5.4	OG	85	80-477
7372		NB100X5.4	OG	50	80-477
7372		NB80X4.8	OG	20	80-477
7372		NB50X4.50	OG	10	80-477
7372		OD610X6	UG	105	80-477
7372		OD406.4X6	OG	40	80-477
7372		OD355.6X6	OG	1100	80-477
7372		OD273.1X6	OG	660	80-477
7372		NB150X5.4	OG	1500	80-477
7372		NB80.0X4.8	OG	1600	80-477
7372		NB50X4.50	OG	100	80-477
7372		NB40X4.0	OG	800	80-477
7372		NB150X5.4	OG	1020	80-477
7372		NB100X5.4	OG	600	80-477
7372		NB80X4.8	OG	3200	80-478
7372		NB50X4.50	OG	50	80-478
7372		NB40X4.0	OG	200	80-478
7372	TG AUX COOLING WATER (ACW/DMCW) OUTSIDE TG HALL	OD813X18	UG	20	80-463
7372		OD813X18	OG	45	80-463
7372		OD457X6	UG	80	80-463
7372		OD457X6	OG	6	80-463
7372		OD457.0X6.0	OG	20	80-463
7372		OD355.6X6.0	OG	1000	80-463
7372		OD323.9X6.4	OG	0	80-463
7372		219.1X6.0	OG	50	80-463
7372		NB150X5.4	OG	220	80-463
7372		NB100X5.4	OG	1000	80-463
7372		NB80X4.8	OG	180	80-463