

S.NO.	EQUIPMENT	NOS. WORK. + STANDBY	CW REOD. PER COOLER CUB.M/Hr.	CW REOD. PER UNIT CUB.M/Hr	PRESS. DROP MWC	TEMP. RISE °C	REMARKS
1	CONDENSER	1 + 0	77100	77100	3.13	9.79	
2	VACUUM PUMPS OF ONE UNIT	1 + 1	100	100	3.5	2.0	*DURING START UP BOTH PUMPS WORK.
3	PHE'S (TC AUX) OF ONE UNIT	2 + 1	1121	2242	7.0	7.2	
3	PHE'S (SG AUX) OF ONE UNIT	1 + 1	718	718	7.0	8.7	

NOTES:

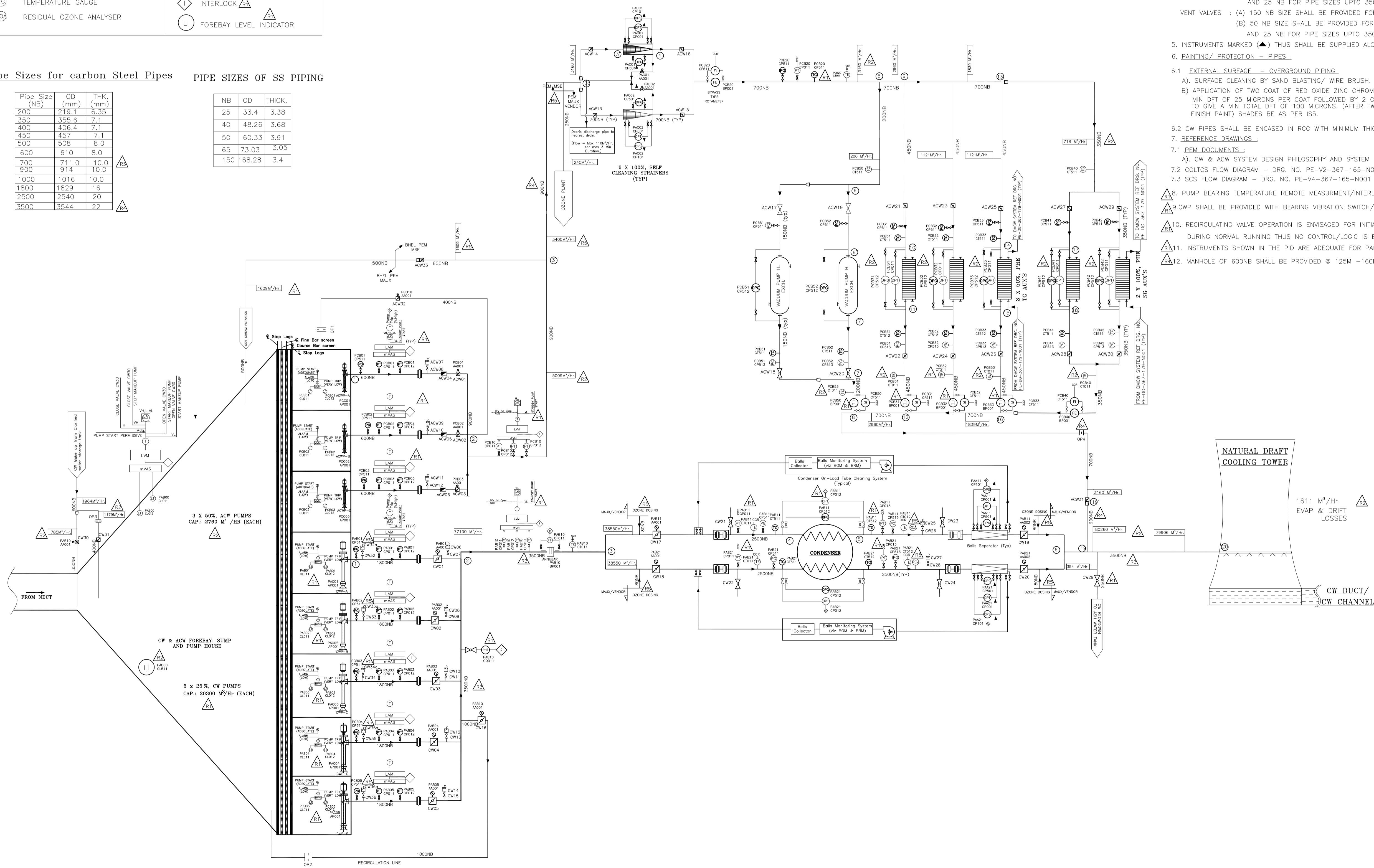
- DESIGN PRESSURE : 5.0 Kg/sq.cm (g) FOR C.W.SYSTEM.
DESIGN PRESSURE : 7.5 Kg/sq.cm (g) FOR A.C.W.SYSTEM.
DESIGN CW INLET TEMP. TO CONDENSER AND VACUUM PUMPS= 32 °C
DESIGN MECHANICAL TEMPERATURE = 50 °C
- MATERIALS OF CONSTRUCTION (PIPEWORK):
A) PIPING UPTO & INCLUDING 50NB SHALL BE OF SS CONFORMING TO ASTM-A-312 GR.316 SCH. 40S
B) PIPING FROM 65 NB TO 150NB(INCLUDING) SHALL BE OF SS CONFORMING TO ASTM-A-312 GR.316 SCH. 10S
C) PIPING 200 NB AND ABOVE SHALL BE CARBON STEEL ROLLED AND WELDED AS PER IS:3589 FROM CS PLATES AS PER IS:2062 WITH PU (POLYURETHANE) COATING INTERNALLY (POLYURETHANE) COATING INTERNALLY WITH MIN. 2MM DFT AS PER AWWA-C-222.
- ALL PRESSURE TAPPINGS & ROOT VALVES TO BE OF 15 NB.
- DRAIN VALVES : (A) 150 NB SIZE SHALL BE PROVIDED FOR CW SYSTEM AS PER LAYOUT REQUIREMENTS.
(B) 50 NB SIZE SHALL BE PROVIDED FOR ACW SYSTEM FOR PIPE SIZES 400 NB & ABOVE AND 25 NB FOR PIPE SIZES UPTO 350 NB AS PER LAYOUT REQUIREMENTS.
VENT VALVES : (A) 150 NB SIZE SHALL BE PROVIDED FOR CW SYSTEM AS PER LAYOUT REQUIREMENTS.
(B) 50 NB SIZE SHALL BE PROVIDED FOR ACW SYSTEM FOR PIPE SIZES 400 NB & ABOVE AND 25 NB FOR PIPE SIZES UPTO 350 NB AS PER LAYOUT REQUIREMENTS.
- INSTRUMENTS MARKED (▲) THUS SHALL BE SUPPLIED ALONGWITH THE EQUIPMENTS.
- PAINTING/ PROTECTION - PIPES :
6.1 EXTERNAL SURFACE - OVERGROUND PIPING.
A). SURFACE CLEANING BY SAND BLASTING/ WIRE BRUSH.
B) APPLICATION OF TWO COAT OF RED OXIDE ZINC CHROMATE PRIMER (CONFIRMING TO IS 2074) WITH MIN DFT OF 25 MICRONS PER COAT FOLLOWED BY 2 COATS OF FINISH PAINTS USING ENAMEL PAINT TO GIVE A MIN.TOTAL DFT OF 100 MICRONS. (AFTER TWO COATS OF PRIMER & TWO COATS OF FINISH PAINT) SHADES BE AS PER IS5.
- CW PIPES SHALL BE ENCASED IN RCC WITH MINIMUM THICKNESS OF 250 mm WITH REINFORCEMENT.
- REFERENCE DRAWINGS :
7.1 PEM DOCUMENTS :
A). CW & ACW SYSTEM DESIGN PHILOSOPHY AND SYSTEM WRITEUP - DRG. NO. PE-DC-367-165-N002
7.2 COLTCS FLOW DIAGRAM - DRG. NO. PE-V2-367-165-N001
7.3 SCS FLOW DIAGRAM - DRG. NO. PE-V4-367-165-N001
- PUMP BEARING TEMPERATURE REMOTE MEASUREMENT/INTERLOCK/PROTECTION SHALL BE PROVIDED FOR CWP AS PER DESIGN PHILOSOPHY.
- CWP SHALL BE PROVIDED WITH BEARING VIBRATION SWITCH/DEVICE FOR INTERLOCK/PROTECTION OF PUMP/MOTOR AS PER DESIGN PHILOSOPHY.
- RECIRCULATING VALVE OPERATION IS ENVISAGED FOR INITIAL COMMISSIONING & DURING MAINTENANCE SINCE NO OPERATION IS ENVISAGED DURING NORMAL RUNNING THUS NO CONTROL/LOGIC IS ENVISAGED FOR NORMAL RUNNING.
- INSTRUMENTS SHOWN IN THE PID ARE ADEQUATE FOR PADO PACKAGE.
- MANHOLE OF 600NB SHALL BE PROVIDED @ 125M -160M INTERVAL IN CW AND ACW SYSTEM BOTH.

Pipe Sizes for carbon Steel Pipes

PIPE SIZES OF SS PIPING

Pipe Size (NB)	OD (mm)	THK. (mm)
200	219.1	6.35
350	355.6	7.1
400	406.4	7.1
450	457	7.1
500	508	8.0
600	610	8.0
700	711.0	10.0
900	914	10.0
1000	1016	10.0
1800	1829	16
2500	2540	20
3500	3544	22

NB	OD	THICK.
25	33.4	3.38
40	48.26	3.68
50	60.33	3.91
65	73.03	3.05
150	168.28	3.4



KARNATAKA POWER CORPORATION LIMITED
BELLARY TPS UNIT # 3, 1X 700MW

TRACTEBEL ENGINEERING
Pvt. Ltd. Consultant

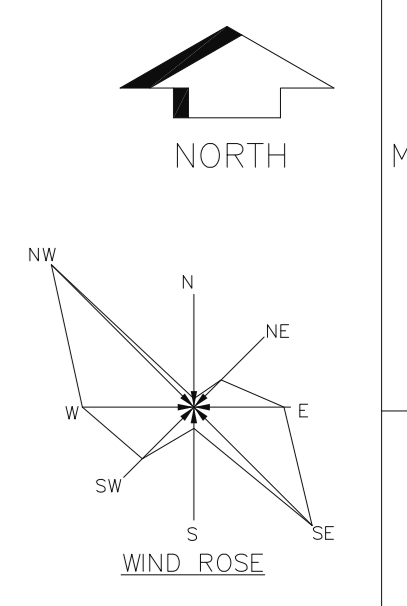
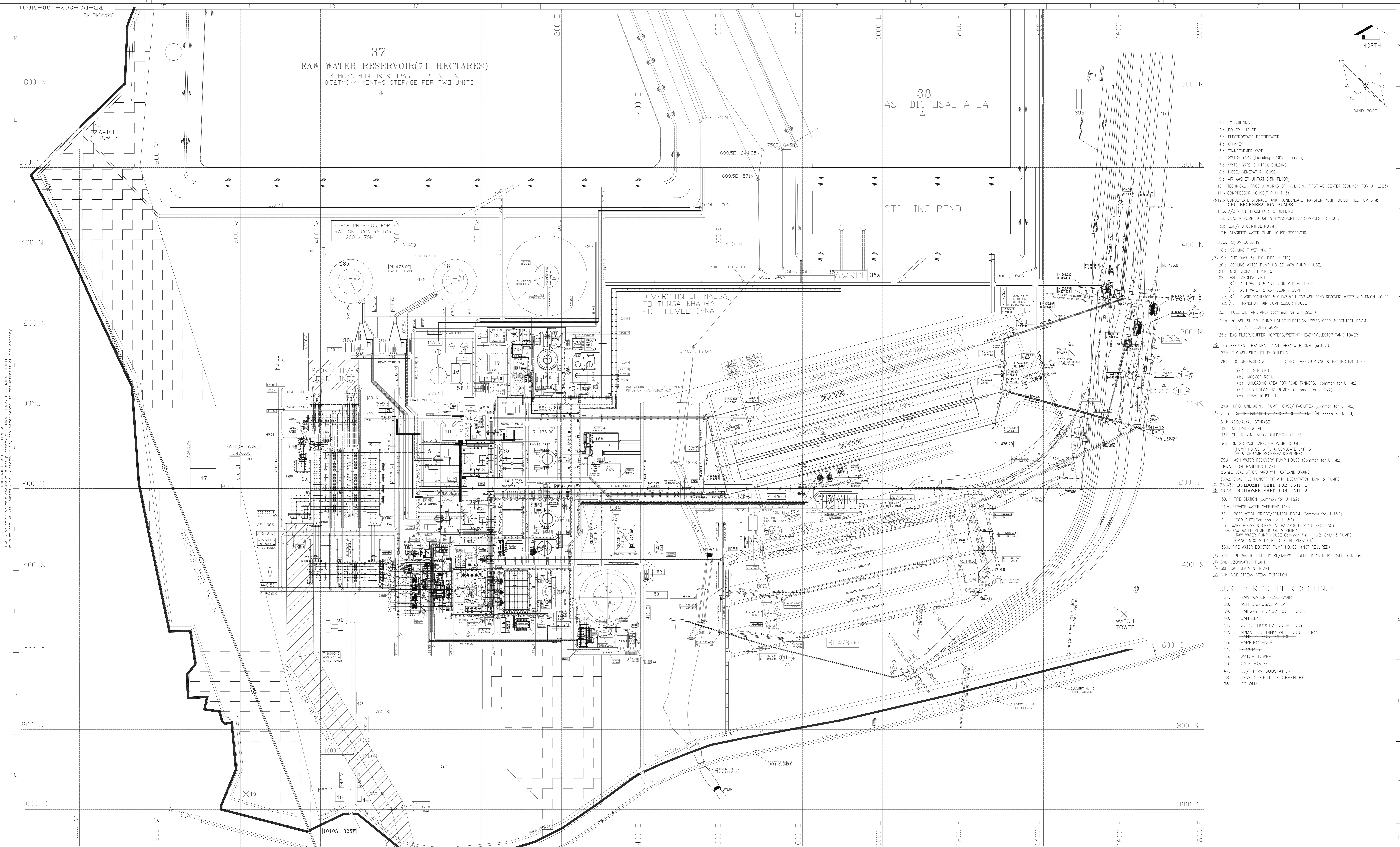
JOB NO. 367
STATUS: CONTRACT

DEPT: POWER SECTOR
PROJECTS: ENGINEERING MANAGEMENT
NEW SECT.

P&ID OF CW & ACW SYSTEM

DATE: 14.01.11
SCALE: AS SHOWN
DRAWING NO. PE-DG-367-165-N001
REV. 04

REV.	DATE	ALTD.	CHD.	APPRO.	REV.	DATE	ALTD.	CHD.	APPRO.	REV.	DATE	ALTD.	CHD.	APPRO.	REV.	DATE	ALTD.	CHD.	APPRO.
01	17/04/11	AJ	AJ	AJ	01	17/04/11	NM	AJ	AJ	01	17/04/11	NM	AJ	AJ	01	17/04/11	NM	AJ	AJ



37
 RAW WATER RESERVOIR(71 HECTARES)
 0.4TMC/6 MONTHS STORAGE FOR ONE UNIT
 0.52TMC/4 MONTHS STORAGE FOR TWO UNITS

38
 ASH DISPOSAL AREA

STILLING POND

DIVERSION OF NALLA TO TUNGA BHADRA HIGH LEVEL CANAL

- LEGEND:-**
- RAILWAY TRACK
 - FUTURE
 - BOUNDARY
 - FENCING
 - EFFLUENT DRAIN
 - STORM WATER DRAIN
 - ROAD
 - GREEN BELT AREA
 - ROADS IN COAL HANDLING AREA GREEN BELT AREA

- NOTES:-**
- POWER HOUSE FINISHED GROUND FLOOR LEVEL IS EL.(±)0.00M WHICH CORRESPONDS TO RL.476.5M
 - ALL ROADS ARE FLEXIBLE PAVEMENT TYPE OF CONSTRUCTION UNLESS NOTED OTHERWISE. WIDTH OF ROAD ARE AS FOLLOWS:
 - a) TYPE AA — 23m WIDE WITH TWO CARRIAGEWAYS OF 10m WIDE WITH 3m REFUGE
 - b) TYPE B — 17m WIDE WITH TWO CARRIAGEWAYS OF 7m WIDE WITH 3m REFUGE
 - c) TYPE C — 7m WIDE
 - d) TYPE D — 4m WIDE
 - e) TYPE E — 5m WIDE CONCRETE ROAD WITH RAILS
 - f) TYPE F — 5m WIDE CONCRETE ROAD
 - g) TYPE G — 7m WIDE CONCRETE ROAD WITH RAIL
 - FINISHED TOP OF ROADS SHALL BE 250mm ABOVE THE SURROUNDING GRADE LEVEL IN MAIN PLANT GRADED AREA.
 - ALL ROADS INDICATED ON THIS DWG ARE SUGGESTIVE ONLY AND ARE IN CUSTOMERS SCOPE
 - PIPE/CABLE RACKS ARE INDICATIVE ONLY & FINAL DETAIL SHALL BE AS PER SEPARATE DETAILED DWG.

10. TC BUILDING
11. BOILER HOUSE
12. ELECTROSTATIC PRECIPITATOR
13. CHIMNEY
14. TRANSFORMER YARD
15. SWITCH YARD (including 220KV extension)
16. SWITCH YARD CONTROL BUILDING
17. DIESEL GENERATOR HOUSE
18. AIR WESHER UNIT(A/S.M FLOOR)
19. TECHNICAL OFFICE & WORKSHOP INCLUDING FIRST AID CENTER (COMMON FOR U-1,2&3)
20. COMPRESSOR HOUSE(FOR UNIT-3)
21. CONDENSATE STORAGE TANK, CONDENSATE TRANSFER PUMP, BOILER FILL PUMPS & CPU REGENERATION PUMPS.
22. A/C PLANT ROOM FOR TG BUILDING
23. VACUUM PUMP HOUSE & TRANSPORT AIR COMPRESSOR HOUSE
24. ESP/VFD CONTROL ROOM
25. CLARIFIED WATER PUMP HOUSE/RESERVOIR
26. RO/DM BUILDING
27. COOLING TOWER No.-3
28. CMB (unit-3) (INCLUDED IN ETP)
29. COOLING WATER PUMP HOUSE, ACM PUMP HOUSE,
30. AIR STORAGE BUNKER.
31. ASH HANDLING UNIT
 - (a) ASH WATER & ASH SLURRY PUMP HOUSE
 - (b) ASH WATER & ASH SLURRY SLUMP
 - (c) GEAR/REGULATOR & CLEAR-BELL FOR ASH POND-RECOVERY-WATER & CHEMICAL HOUSE- TRANSPORT-AIR-COMPRESSOR-HOUSE-
 - (d)
32. FUEL OIL TANK AREA (common for U 1,2&3)
33. ASH SLURRY PUMP HOUSE/ELECTRICAL SWITCHGEAR & CONTROL ROOM
 - (a) ASH SLURRY PUMP
 - (b) ASH SLURRY SLUMP
34. BAG FILTER/BUFFER HOPPERS/WETTING HEAD/COLLECTOR TANK-TOWER
35. EFFLUENT TREATMENT PLANT AREA WITH CMB (unit-3)
36. FLY ASH SLO/UTILITY BUILDING
37. LDO UNLOADING & LDO/HFO PRESSURISING & HEATING FACILITIES
 - (a) P & H UNIT
 - (b) MCC/CP ROOM
 - (c) UNLOADING AREA FOR ROAD TANKERS. (common for U 1&2)
 - (d) LDO UNLOADING PUMPS. (common for U 1&2)
 - (e) FOAM HOUSE ETC.
38. H.F.O. UNLOADING PUMP HOUSE/ FACILITIES (common for U 1&2)
39. CW-CHLORINATION & ABSORPTION-SYSTEM: (PL REFER SI. No.59)
40. ACID/ALKALI STORAGE
41. NEUTRALIZING PIT
42. CPU REGENERATION BUILDING (Unit-3)
43. DM STORAGE TANK, DM PUMP HOUSE. PUMP HOUSE IS TO ACCOMMODATE UNIT-3 DM & CPU/MB REGENERATIONPUMPS)
44. ASH WATER RECOVERY PUMP HOUSE (Common for U 1&2)
45. COAL HANDLING PLANT
46. A1. COAL STOCK YARD WITH GARLAND DRAINS.
47. COAL PILE RINOFF PIT WITH DECLINATION TANK & PUMPS.
48. BULDOZER SHED FOR UNIT-1
49. BULDOZER SHED FOR UNIT-3
50. FIRE STATION (Common for U 1&2)
51. SERVICE WATER OVERHEAD TANK
52. ROAD WEIGH BRIDGE/CONTROL ROOM (Common for U 1&2)
53. LDO SHED(Common for U 1&2)
54. WARE HOUSE & CHEMICAL HAZARDOUS PLANT (EXISTING)
55. RAW WATER PUMP HOUSE & PIPING (RAW WATER PUMP HOUSE Common for U 1&2. ONLY 3 PUMPS, PIPING, MCC & TR. NEED TO BE PROVIDED)
56. FIRE-WATER-BOOSTER-PUMP-HOUSE- (NOT REQUIRED)
57. FIRE WATER PUMP HOUSE/TANKS - DELETED AS IT IS COVERED IN 16b
58. OZONISATION PLANT
59. CW TREATMENT PLANT
60. CW TREATMENT PLANT
61. SIDE STREAM STEAM FILTRATION.

- CUSTOMER SCOPE (EXISTING):**
37. RAW WATER RESERVOIR
 38. ASH DISPOSAL AREA
 39. RAILWAY SIDINGS/ RAIL TRACK
 40. CANTEN
 41. GUEST-HOUSE/DORMITORY
 42. ADMIN-BUILDING-WITH-CONFERENCE-BANK-&POST-OFFICE
 43. PARKING AREA
 44. SECURITY
 45. WATCH TOWER
 46. GATE HOUSE
 47. 66/11 kv SUBSTATION
 48. DEVELOPMENT OF GREEN BELT
 58. COLONY

REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD
1	15.12.2011	LSB	AMH	SAJ	1	07.06.2013	LSB	AMH	SAJ	1	07.03.2013	LSB	AMH	SAJ
2	15.12.2011	LSB	AMH	SAJ	2	07.06.2013	LSB	AMH	SAJ	2	07.03.2013	LSB	AMH	SAJ
3	15.12.2011	LSB	AMH	SAJ	3	07.06.2013	LSB	AMH	SAJ	3	07.03.2013	LSB	AMH	SAJ
4	15.12.2011	LSB	AMH	SAJ	4	07.06.2013	LSB	AMH	SAJ	4	07.03.2013	LSB	AMH	SAJ
5	15.12.2011	LSB	AMH	SAJ	5	07.06.2013	LSB	AMH	SAJ	5	07.03.2013	LSB	AMH	SAJ

KARNATAKA POWER CORPORATION LIMITED
 BELLARY TPS, UNIT-3 1x700MW

TRACTEBEL ENGINEERING PVT. LTD
 CONSULTANT

BHARAT HEAVY ELECTRICALS LTD
 POWER SECTOR
 PROJECT ENGINEERING MANAGEMENT
 NEW DELHI

PLOT PLAN

DEPT. SCALE: 1:3000 DRAWING NO. PE-DG-367-100-M001
 SHEET 1 OF 1 REV. 5

ELECTRIC FILE NAME: 367_100_M001_RS.DWG

Page 276 of 277



TITLE: **TECHNICAL SPECIFICATION FOR
COOLING WATER OZONE GENERATION PLANT**
1X700 MW BELLARY 3 STPP

**BHEL DOCUMENTS NO.: PE-TS-367-174-14000-
A001**

VOLUME III

SECTION -

REV. NO. 00

DATE: 29/05/2013

LIST OF SCHEDULES



TITLE:
**TECHNICAL SPECIFICATION FOR
 COOLING WATER OZONE GENERATION PLANT**
1X700 MW BELLARY 3 STPP

BHEL DOCUMENTS NO.: PE-TS-367-174-14000-
 A001

VOLUME **III**

SECTION -

REV. NO. 00

DATE: 29/05/2013

SUGGESTIVE PRICE FORMAT FOR COOLING WATER OZONE GENERATION PLANT: 1X700 MW BELLARY 3 STPP

Sl. No.	DESCRIPTION OF EQUIPMENT / ITEM	TOTAL PRICE FOR "FOR" SITE
(1)	(2)	(3)
1.0	Total lump sum firm price on FOR site basis for design, engineering, manufacture, fabrication, inspection, testing at manufacturer's works, supply/delivery duly packed at site including freight, unloading, storage and handling at site, in site transportation, erection and commissioning, trial run at site, PG test, plant handing over to customer etc. inclusive of all prevailing taxes, duties and other levies of CW Ozone Generation Plant complete with all accessories, start up and commissioning spares as required for the total scope defined as per BHEL Technical specification - PE-TS-367-174-14000-A001 REV 00 for 1X700 MW BELLARY 3 STPP .	
NOTES:		
a	Bidder to note that total price indicated above at 1.0 shall be considered for evaluation and hence, should be complete in all respect for the full scope defined and considering all terms and conditions agreed.	
b	In case, price indicated above does not match with item wise break-up given at 2.0, the highest price so calculated shall be considered for evaluation but in case of order, the same shall be placed at the lowest price.	
2.0	BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE	
2.1	Total lump sum firm price for EQUIPMENT (SUPPLY) i.e. design, engineering, manufacture, fabrication, inspection, testing at vendor / sub vendor works, supply/delivery duly packed at site etc. for the complete scope of supply of COOLING WATER OZONE GENERATION PLANT defined in the BHEL tender specification for delivery up to site basis (freight included).	
2.2	Erection & Commissioning	
2.3	PG test and handing over the plant to customer.	
3.0	Recommended spares for three (3) years normal operation (optional item)	



TITLE:
**TECHNICAL SPECIFICATION FOR
COOLING WATER OZONE GENERATION PLANT
1X700 MW BELLARY 3 STPP**

BHEL DOCUMENTS NO.: PE-TS-367-174-14000-
A001

VOLUME **III**

SECTION -

REV. NO. 00

DATE: 29/05/2013

**LIST OF DRAWING / DOCUMENTS TO BE
SUBMITTED AFTER AWARD OF CONTRACT**

SL. NO.	BHEL DRG NO	DRG TITLE	CATEGORY	NO. OF WEEKS FOR DOCUMENT SUBMISSION AFTER PLACING LOI/PO
1.	PE-V13-367-174-14000-A001	PIPING & INSTRUMENTATION DIAGRAM	A	4
2.	PE-V13-367-174-14000-A002	PROCESS DESIGN BASIS AND SIZING CALCULATION	A	4
3.	PE-V13-367-174-14000-A003	EQUIPMENT LAYOUT	A	4
4.	PE-V13-367-174-14000-A004	SUB VENDOR LIST & INSPECTION CRITERIA	A	4
5.	PE-V13-367-174-14000-A005	CONTROL PHILOSOPHY WITH PLC SYSTEM CONFIGURATION DIAGRAM	A	4
6.	PE-V13-367-174-14000-A006	CIVIL ASSIGNMENT DRAWING	A	8
7.	PE-V13-367-174-14000-A007	ELECTRICAL LOAD LIST	A	8
8.	PE-V13-367-174-14000-A008	PIPING LAYOUT	A	8
9.	PE-V13-367-174-14000-A009	DATASHEET FOR UPS	A	10
10.	PE-V13-367-174-14000-A010	TECHNICAL DATA SHEET OF VERTICAL / HORIZONTAL PUMPS	A	8
11.	PE-V13-367-174-14000-A011	TECHNICAL DATA SHEET OF COMPRESSORS	A	8
12.	PE-V13-367-174-14000-A012	GA & DATA SHEET OF MOTORS	A	8
13.	PE-V13-367-174-14000-A013	QAP FOR VERTICAL / HORIZONTAL PUMPS WITH MOTOR	A	4
14.	PE-V13-367-174-14000-A014	QAP FOR COMPRESSORS WITH MOTOR	A	4
15.	PE-V13-367-174-14000-A015	DATA SHEET FOR INSTRUMENTS AND ANALYSER	A	8
16.	PE-V13-367-174-14000-A016	DATASHEET & GA OF OZONE GENERATOR (ELECTROLYZER)	A	8
17.	PE-V13-367-174-14000-A017	QAP OF OZONE GENERATOR (ELECTROLYZER)	A	4
18.	PE-V13-367-174-14000-A018	GA OF ATMOSPHERIC TANKS	A	8



TITLE:
**TECHNICAL SPECIFICATION FOR
 COOLING WATER OZONE GENERATION PLANT**
1X700 MW BELLARY 3 STPP

BHEL DOCUMENTS NO.: PE-TS-367-174-14000-A001

VOLUME **III**

SECTION -

REV. NO. 00

DATE: 29/05/2013

19.	PE-V13-367-174-14000-A019	GA OF PRESSURE VESSELS	A	4
20.	PE-V13-367-174-14000-A020	MECHANICAL DATASHEET & GA FOR AIR DRIER, OXYGEN GENERATOR, CHILLER, VENTURI INJECTOR ETC.	A	8
21.	PE-V13-367-174-14000-A021	DATASHEET FOR AIR CONDITIONING AND VENTILATION SYSTEM	A	8
22.	PE-V13-367-174-14000-A022	MECHANICAL DATASHEET & GA FOR STRAINERS & VALVES	A	10
23.	PE-V13-367-174-14000-A023	DATASHEET FOR SAFETY ITEMS	A	10
24.	PE-V13-367-174-14000-A024	GA & DATA SHEET OF TRANSFORMER & RECTIFIER	A	8
25.	PE-V13-367-174-14000-A025	QAP OF TRANSFORMER & RECTIFIER	A	4
26.	PE-V13-367-174-14000-A026	INSTRUMENT SCHEDULE	I	10
27.	PE-V13-367-174-14000-A027	VALVE SCHEDULE	I	10
28.	PE-V13-367-174-14000-A028	PLC DOCUMENTS , GA & WIRING DETAILS OF PLC PANEL, I/O LIST, BOM, MIMIC DIAGRAM	A	12
29.	PE-V13-367-174-14000-A029	QAP FOR PLC	A	4
30.	PE-V13-367-174-14000-A030	CABLE TRAY LAYOUT	A	10
31.	PE-V13-367-174-14000-A031	QAP / ICL OF OZONE GENERATION PLANT (BALANCE OF ITEMS)	A	4
32.	PE-V13-367-174-14000-A032	ERECTION PROCEDURE	A	8
33.	PE-V13-367-174-14000-A033	CABLE SCHEDULE, SUBMISSION OF CABLE INTERCONNECTION DIAGRAM	A	10
34.	PE-V13-367-174-14000-A034	PAINTING SCHEDULE	I	8
35.	PE-V13-367-174-14000-A035	ENGINEERING BOQ	A	10
36.	PE-V13-367-174-14000-A036	PG TEST PROCEDURE	A	12
37.	PE-V13-367-174-14000-A037	O&M MANUAL	A	12

Legends:

A= Approval

I= Information

Notes:

1. The above mentioned documents are bare minimum. Any other document as required by BHEL shall be submitted by the bidder without and commercial and delivery implication to BHEL.
2. The resubmission of the revised document shall be done within 10 days. The revised documents submitted shall be complete in all respects incorporating all comments. Any incomplete document submitted shall be treated as non- submission with delays attributable to bidder's account. For any clarification/ discussion required to complete the drawings, the bidder shall himself depute his personal to BHEL for across the table discussions/ finalizations/ submissions of drawings.



TITLE:
SCHEDULE OF DEVIATIONS:
() From Technical Specification (Volume-IIB)

BHEL DOCUMENTS NO.: PE-TS-367-174-14000-
A001

VOLUME III

SECTION

REV. NO. 00 | DATE: 29/05/2013

SHEET of

SCHEDULE OF CLARIFICATIONS/DEVIATIONS

All clarification/deviations from the Technical Specification shall be filled in by the BIDDER clause by clause in this format only.

VOLUME	SECTION	CLAUSE NO.	PAGE NO.	SPECIFICATION REQUIREMENT	CLARIFICATION	REASONS FOR CLARIFICATION

NOTE: Bidder to furnish the specification clause no. against which the deviation is sought. No general deviation (without mention of the specification clause no.) shall be entertained and the same shall be treated as null and void.

We the undersigned hereby certify that the above mentioned are the only deviations.

PARTICULARS OF BIDDER / AUTHORISED REPRESENTATIVE.

NAME	DESIGNATION	SIGNATURE	DATE	COMPANY SEAL



TITLE :
TECHNICAL SPECIFICATION FOR
COOLING WATER OZONE GENERATION PLANT
1X700 MW BELLARY 3 STPP

BHEL DOCUMENTS NO.: PE-TS-367-174-14000-A001

VOLUME III

REV. NO. 00 **DATE : 29/05/13**

SHEET 1 OF 1

The bidder shall confirm compliance with following by signing/ stamping this compliance certificate and furnishing same with the offer:

- a.) The scope of supply, technical details, construction features, design parameters etc. shall be as per technical specification & there are no exclusions/ deviations with regard to same.
- b.) QP/ test procedures shall be submitted in the event of order based on the guidelines given in the specification & QP enclosed therein.
QP will be subject to BHEL/Customer approval in the event of order & customer hold points for inspection/ testing shall be marked in the QP at the contract stage. Inspection/ testing shall be witnessed as per same apart from review of various test certificates/ Inspection records etc.
The charges for 3rd party inspection (Lloyds, TUV or equivalent) for imported components shall be included in the base price of the equipment by the bidder
- c.) All drawings/data – sheets etc. to be submitted during contract shall be subject to BHEL/Customer review/ approval. GA drawings, as submitted with offer at tender stage are for reference purpose only and shall be subject to approval during contract stage.
- d.) There are no other deviations with respect to specification other than those furnished in the ‘Schedule of Deviations’
- e.) The offered materials shall be either equivalent or superior to those specified. Also for components where material is not specified it shall be suitable for intended duty, materials shall be subject to approval in the event of order.
- f.) The commissioning spares (if any) are supplied on ‘As Required Basis’ & prices for same included in the base price (If bidders reply to this is “No commissioning spares are required” and if some spares are actually required during commissioning same shall be supplied by bidder without any cost to BHEL).
- g.) All sub vendors shall be subject to BHEL/CUSTOMER approval
- h.) Bidder confirms that all drawings/documents in soft as well as hard copy shall be submitted within 2 weeks from placement of LOI’s in the event of order.
Within one (1) week of receipt of BHEL comments a technical representative of bidder shall come for meeting with BHEL alongwith revised documents to resolve all issues and incorporate all comments in the soft copy here for further submission to customer.
Further on receipt of customer comments on the documents a technical representative from bidder shall come for meeting to resolve all issues and incorporate all comments in the soft copy at BHEL and resubmit the drgs/documents for cat I approval and shall visit customer/customer’s consultant if required for across the table approval of documents.
- i.) Any special tools & tackles, if required, shall be in bidder’s scope.
- j.) Performance Guarantees shall stand valid till the satisfactory completion of performance testing and its acceptance by purchaser/customer
- k.) Prices for recommended spares (if any) for three year operation shall be furnished separately and not to be included in the base price.

BHEL – PS - PPEI: NOIDA, SECTOR-16A, U.P. – 201301.



TITLE
* **SCHEDULE OF DECLARATIONS**

BHEL DOCUMENTS NO.: PE-TS-367-174-14000-A001

VOL III

SHEET..... OF.....

* Bidder shall include this schedule both in technical and Price offers

DECLARATION

Icertify that all the technical data and information pertaining to this specification are correct and are true representation of the equipment/system covered by our format proposal number Dated and there is no deviation to the specification.

I hereby certify that I am duly authorized representative of the Bidder's company whose name appears above my signature.

Biders Company Name

Authorised representative's Signature

Name

Bider's Name The bidder hereby agrees to fully comply with the requirements and intent of this specification for the price indicated

PARTICULARS OF BIDDER / AUTHORISED REPRESENTATIVE				
NAME	DESIGNATION	SIGNATURE	DATE	COMPANY SEAL