

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, GUDLAVALLERU

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 21.04.2020.

CIRCULAR

All the faculty are here by informed that Mechanical Engineering Department is conducting a guest lecture on “**Opportunities in PIPING DESIGN**” by **B. Pardha Saradhi, Senior Engineer, PM Group Ireland., Bangalore**, on 24th April 2020 for III year Mechanical Engineering students. All the faculty members are requested to join this guest lecture.

Venue: ME AC Seminar Hall (N – 216)

Time: 1.30 PM to 04.00 PM


H.M.E.

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, GUDLAVALLERU

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 22.04.2020.

CIRCULAR

All the III B. Tech. Mechanical Engineering Students are here by informed to participate in a guest lecture on “**Opportunities in Piping Design**” by Mr. B. PardhaSaradhi, Sr.Engineer, PM Group Ireland, on 24th April 2020 without fail.

Venue: Mechanical Seminar Hall (N216)

Time: 01.30PM to 04.00 PM

M. S. Saradhi
H.M.E.

12



IE (I) STUDENT CHAPTER



In association with

MECHANICAL ENGINEERING ASSOCIATION

Is Organising

Guest Lecture on Piping design

on

24th April – 2020



**Department of Mechanical Engineering
Seshadri Rao**

Gudlavalleru Engineering College

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakindada)

Seshadri Rao Knowledge Village

GUDLAVALLERU - 521 356

Krishna Dist. A.P.

Programme Schedule

- ⇒ Welcoming Guests
- ⇒ Introduction to Speaker
- ⇒ Lecture on Piping Design
- ⇒ Vote of Thanks

Guest Speaker

Sri. B.Pardhasaradhi
Sr. Engineer
PM Group Ireland, Bangalore

Coordinators

Sri.P. Satyanarayana. *Asst. Prof.*
Sri G. Ratna Kumar. *Asst. Prof.*

Venue

Mechanical AC Seminar Hall (N 216)



PIPING DESIGN

By

SRI. B. PARDHA SARADHI

Sr. Engineer

PM Group Ireland., Bangalore

on

24.04.2020



DEPARTMENT OF MECHANICAL ENGINEERING

SESHADRI RAO

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village:: GUDLAVALLERU



Pardha Saradhi Borra
MECHANICAL DESIGN ENGINEER

Good technical & Project lead engineering knowledge in systems like Aux. Boiler, Condenser water system, cooling towers, Pumps, Fuel oil system, Oil unloading arm, Pumps, Hydrogen Generation system, Compressors, Packages, heat exchangers, Nitrogen generation system, tanks, Chemical Injection system, HRSG packages, Cranes & Hoists and piping. Includes 2 years Field experience. Experience in feed estimations.

Industry Preference: Power/Oil & Gas-EPC/FEED

✉ pardhu332@gmail.com

☎ +91 9866681834

Objective

To obtain a better challenging and responsible position in a growth-oriented organization, which gives me an opportunity to explore and enhance my skills for the success of organization.

Education:

- Master of Technology in Energy Systems from JNTUH - Hyderabad
- Bachelor of Technology in Mechanical Engineering during the year 1998-2002 at Gudlavalleru Engineering College affiliated to JNTU College of Engineering, Hyderabad.
- Higher Secondary Education, Gotham Junior College, Vijayawada, Andhra Pradesh.
- Secondary Education, Vishwasanthi English Medium School, Vijayawada, Andhra Pradesh.

Profile:

Total 15+ years of experience with core skills in designing concept to commissioning experience in Oil & gas and Power - Equipment, water systems and Packages in onshore and offshore. Expertise in engineering of Cooling Towers, Heat Exchangers, CW system, Pumps, Auxiliary system, Fuel oil system, Hydrogen generation system, Nitrogen Generation system, Compressors, Cranes & Hoists, Dosing System and tanks worked on many international projects. Committed in swiftly completing projects with competent inter discipline skills and ensuring on-time deliverables within pre-set cost parameters. Efficient organizer, motivator, team player and a decisive leader with capabilities in motivating teams to excel and win.

Area of Excellence

Design Engineering /
Project Lead Engineer

EPC/FEED /
Engineering Consultancy

Aux. Boiler, Cooling water
Cooling Tower, Heat Exchangers
Pumps, Cranes & Hoists,
Hydraulics calculations and Piping

Costing & Estimation

Inter Discipline Coordination

HRSG, Hydrogen generation system
Fuel oil system, Dosing System

Technical Bid Evaluation

Training & Team Leadership

Field Engineering & Supervision

Key Skills

- Reviewing and understanding Owner requirements and accordingly proceeding downstream engineering. Preparing clarifications on Owner specifications.
- Conducting and attending Project Review Meetings internally, with vendors and Owner / Owner consultant.

- Conducting regular meetings with Owner – PJ team to expedite Engineering and reporting management.
- Preparation of Hydraulics calculations for pipe network of piping layout.
- Review of Isometric & L sections and pipe invert levels, air valve and scour valve locations. Minimizing the quantities.
- P&ID preparation
- System design calculations, Basic Engineering for various equipment & Systems like Condenser cooling water (CW) pumps, Cooling water & Oil pumps, Compressors air system, Cooling Tower, Filters, Fuel Oil system, Hydrogen Generation System (H₂), Service gas system(Nitrogen N₂ & Oxygen O₂) Chemical dosing system, tanks and EOT Cranes & Hoists.
- Design basis report (DBR) for various packages
- Preparation of basic engineering sizing calculations, P&ID's Technical specifications (Enquiry RFQ) and PO's required for preparation of technical specifications.
- Conducting technical pre-order activities such as technical clarification meeting prior to bid submissions. Participate and prepare input to the technical clarifications to submitted offers.
- Preparation Technical Bid Evaluation (TBE) reports, Vendor drawing review for the detailed design of the systems.
- Participating in kick off meetings and discussing project schedule and list of deliverables related to packages.
- Preparation of BOQ for specials & fittings and valves.
- Post order vendor drawings and documents review.
 - Proactively work with document control to ensure documentation as per MDL
- Ensure Material Quality Stage/Final Inspections by proper coordination.
- Preparing Monthly progress report and reporting to Management.
- Smooth Execution of Packages by regularly coordinating between Engineering & Package Vendors and conducting Manufacturing Review Meetings and Expediting Visits.
- Coordinating with site for smooth execution of project.
- Budget control and Monitoring FOB activities.
- Co-coordinating with TA's and erection & commissioning team by sitting at site.
- Co-coordinating with site procurement team for local procurement activity.
- Co-coordinating with site team for closing of punch points.
- Handled project engineering role for some projects both Indian and International. Coordination between Owner, Owner Engineers and vendors, site Erection team.

INTERDISCIPLINARY & CO-ORDINATION AND SITE CO-ORDINATION

- Provide inputs for the preparation of plot plans; organize the issuance of engineering drawings and technical documents for Inter-Discipline Checks (IDC's), coordinate with other engineering disciplines in the integration of data inputs.
- Frequent technical discussions with Clients and Vendors. Resolving Site Technical queries (STQs) for supporting construction activities, Providing inputs to Civil and electrical departments, Inter department clearance for Civil and electrical related documents.
- Good understanding of multi-disciplinary activities that helps smooth Interfacing with other engineering disciplines like Civil, Process, Piping, Electrical, Instrumentation and controls.

Soft Skills : AutoCAD, MS-Office and Document Management System (DMS).

Current Employment:

Working as Sr. Engineer in PM group Ireland since Jan 2022 to till date.



Some of the Projects Associated:

Johnson & Johnson Vision care Ireland UC

Previous Employment:

Working as Manager in Mantena Constructions Pvt Ltd since April 2020 to Nov 2021.



Some of the Projects Associated:

Panchamnagar irrigation project – WRD MP

Sajali pressurized irrigation project – WRD MP

Lower ORR irrigation project – WRD MP

Experience with TPSC India Pvt Ltd::

Working as Assistant General Manager in TPSC (Toshiba Plant systems and Services) India Private Limited July 2010 to till March 2020.



Some of the Proposal Associated:

- Indonesia Proposals PLN 4 - 3 x 55 MW , 1 x 25 MW – Proposal Lead Engineer
- Assiut Supercritical Power Plant 1 x 650 MW – Proposal Lead Engineer
- 2x30 MW Indonesia Pomalaa Project (TPP)
- 4 x 55 MW Balingasag Stage 2 (TPP)
- 170 MW Chandra Asri (CCPP)
- 1x100MW Na Duong II (TPP) – Proposal Lead Engineer
- Somanga Fungu 240MW CCPP
- Chettinad, Tamilnadu, 2 x 660 MW TPP
- KSK 2x850MW
- SULSEL BARU GAS TURBINE 2x50MW

Key Responsibilities as lead Engineer:

- Study Tender Specification
- Preparing and coordination with owner for deviations and clarifications
- BOQ preparation assistance
- Bidder coordination and evaluations
- Cost preparation
- Preparation of technical specification, P&ID's and datasheets to Owner
- Management approval documentation
- Inter discipline coordination for inputs exchange

Some of the EPC Projects Associated:

- 1. Project:** Matarbari 2 x 600 MW Thermal Power Plant - Bangladesh Government Bangladesh
- 2. Project:** 1x150 MW Cambodia Energy II Co., Limited Thermal Power Plant - Cambodia Energy II Co., Cambodia
- 3. Project:** Balingasag 3 x 55 MW Thermal - Minergy Coal Corporation Philippines
- 4. Project:** 1x80 MW Class Gas fired combined Cycle Power Plant - Keramasan Power Plant Extension Project - Indonesia
- 5. Project:** NBCC2 combined Cycle Cogeneration Plant - North Bangkok Combined Power Plant Block 2 - Bangkok

Some of the Engineering Consultancy Projects Associated:

1. **Project:** 1x 525 MW Tuticorin Thermal Power Plant - Mega Engineering and Infrastructure Ltd
2. **Project:** 2x 67.5 MW BPPL Thermal Power Plant - Bhubaneswar power private limited.
3. **Project:** 225MW CCPP Luna Infraprop (Pvt.) Limited (LIPL) - Luna Infra prop Pvt Kashipur.
4. **Project:** 2x 366 MW LKPP Combined Cycle Power Plant - Lanco Kondapalli power private limited.
5. **Project :** 2x 150 MW Nagai Thermal Power Plant - Mega Engineering and Infrastructure Ltd
6. **Project:** 2x600 MW Singhitara Thermal Power Plant - ABIR Infrastructure Private Limited,

- **Experience with PL Engineering Ltd:**

In PL Engineering Ltd working as a Deputy Manager (Design) at Hyderabad from July 2008 to July 2010.



Projects Involved with PL Engineering Limited

2 x 350 MW Thermal Power Plant (BOP) IBEUL

- **Experience with Alstom Projects India Limited:**

In Alstom Projects India Limited worked as a Lead Engineer (Design) at Delhi from July 2006 to July 2008.



Projects Involved with Alstom Projects India Limited

CCPP - HRSG	Tallawara - Australia
CCPP - HRSG	Utran/GSECL.
Tail Gas	Phillips Carbon Black
CCPP - HRSG	Flevo & Fos

- **Experience with IJT:**

In IJT worked as Sr. Engineer (Design) at Delhi from Oct 2005 to July 2006

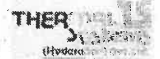


Projects Involved:

Project Description	Client
JB0622 Fluidized bed combustor boiler	Nahar Industrial Enterprises Ltd.,
JB0652 BF Gas Fired Boiler	Ramsarup Lohh Udyog Ltd.,

- **Experience with Thermal systems (Hyderabad) Private Limited:**

In Thermal Systems (Hyderabad) Private Limited worked as an Engineer (Design) at Jeedimetla, Hyderabad from Oct 2003 to till Oct 2005.



Projects Involved:

Project Description	Client
Sponge Iron Plant, WHRSG	Vandana Global Limited
Sulphuric Acid Plant, Fired Boiler	Andhra Sugars, Kovvur
Fire Tube Boiler for Thermal Oxidizer	IOCL, Panipat

Sponge Iron Plant, WHRSG

Vandana Global Limited

Sponge Iron Plant, WHRSG

Rana Sugars Ltd.,

Atmospheric Fluidized bed combustor
boiler

Nahar Industrial Enterprises Ltd.,

Familiar Codes: API 610, 650, ASME-Section I, ASME VIII Div 1, ASME 31.1 & ASTM Codes.

Personal Details

Pass Port Number: L5782777.

Date of Birth: 18th July 1980.

Languages Known: English, Telugu and Hindi.

Permanent Address: S/o B. Krishna Murthy (Late),

Door No: 5-6/64, SVS Abharana Enclave, KGM Colony, Bachupally,
Hyderabad-500090

(Pardha Saradhi.Borra)

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village**Gudlavalleru – 521 356, Krishna District, Andhra Pradesh****Department of Mechanical Engineering****24-04-2020**A Guest Lecture on Opportunities in Piping Design by Sri. B. Partha Saradhi Sr.Engineer,
PM Group Ireland, Bangalore

S.No.	Roll No.	Name of the student
1	18485A0302	TATAKULA JAGADEESH
2	18485A0303	JUNAPUDI MAHESH BABU
3	18485A0304	TANKASALA NAGA SAI VENKATA VARA PRASAD
4	18485A0305	MANEPALLI PAVAN SATYA NAGA SAI RAM
5	18485A0306	GURRALA RAJESH
6	18485A0307	KAMARAJUGADDA NAVEEN SAI
7	18485A0308	BULASARA ANIL KUMAR
8	18485A0310	GARAPATI VENKATA SAI DURGA
9	18485A0311	PAMARTHI ESWAR VEERA VENKATA MANI SHANKAR
10	18485A0312	AVANIGADDA KISHORE
11	18485A0313	ANKAM RAVI TEJA
12	18485A0314	DODDAKA CHANDRA SEKHAR
13	18485A0315	ABDUL KHALEEL AHMAD
14	18485A0316	ANAGANI NAGA GANESH
15	18485A0317	AREPALLI BHOGESH
16	18485A0318	CHAKKA CHAKRAVARTHI
17	18485A0319	DEVANABOINA SRI KRISHNA
18	18485A0320	GARIKIPATI DINESH VARMA
19	17481A0353	MALLAVOLU GANESH
20	17481A0354	MANDA PRASANTH KUMAR
21	17481A0355	MANDAVA LIKESH SAI
22	17481A0356	MANIKONDA SREE LATHA (W)
23	17481A0357	MARKAPUDI JENNY SATISH CHANDRA
24	17481A0358	MARUMUDI GOPICHANDU
25	17481A0359	MATTA VAMSI
26	17481A0360	MATTI BHARGAVA SAI (W)
27	17481A0363	MONDEDDU GOPAL REDDY
28	17481A0364	MUNAGALA VENKATA NAGA SAI
29	17481A0365	MUNIPALLI PAVAN KALYAN
30	17481A0366	N DHEERAJ SRINIVAS
31	17481A0367	NALLAMADUGU VENKATA KARTHIK
32	17481A0368	NAREPALEPU SAKET BABA
33	17481A0369	NIDUMOLU RAJA GANESH
34	17481A0370	PADAMATA PAVAN VENKATESWARARAO
35	17481A0371	PAGOLU HEMANTH BABU
36	17481A0373	PARISE RAMESH
37	17481A0374	PEDAMALLU DINESH SAI
38	17481A0375	PERUMALLA MOHITH
39	17481A0376	PISUPATI CHANDRAKANTH
40	17481A0377	POLAGANI JAGADESH

41	17481A0378	POLUKONDA SAI KUMAR
42	17481A0379	POTNURI SAI PRAKASH
43	17481A0380	PULLETIKURTHI SAI KRISHNA
44	17481A0381	RAJULAPATI GUNAVARDHAN
45	17481A0383	RAVI VAMSI
46	17481A0384	SALA GOPI KRISHNA
47	17481A0385	SAMMETA ABHINAYA SESA SAI AKHILESH
48	17481A0386	SAMMETA YOGA SREEDHAR
49	17481A0388	SAYILA SRIMAN
50	17481A0389	SHAIK CHAND BASHA
51	17481A0390	SHAIK KHAZA ALI
52	17481A0391	SHAIK MOHAMMED IBRAHEEM NASEER
53	17481A0392	SHAIK NAYAK RASUL
54	17481A0393	SHAIK NAZEER BASHA
55	17481A0394	SHAIK RAFI
56	17481A0395	SIMHADRI SAIDHARAN
57	17481A0396	SUNKARA MOHAN RAMA KRISHNA GANESH
58	17481A0397	SUNKARA PAVAN KUMAR
59	17481A0398	TADEPALLI SAI ANEESH
60	17481A0399	TALARI MANOAH DANIEL
61	17481A03A0	THOTA TEJA RAKESH KUMAR
62	17481A03A2	TUMMALA SUJITH KUMAR
63	17481A03A4	UPPALA REVANTH SAI
64	18485A0321	VEMULAPALLI RANGARAO
65	18485A0322	GATTIREDDY DINESH
66	18485A0323	PASUPUNETI SIVA KUMAR
67	18485A0324	VUYYURU YUGANDHAR
68	18485A0325	MANGADODDI SANKAR KUMAR
69	18485A0326	VEERANKI PAVAN KUMAR
70	18485A0327	VADDEBOINA GOPI NATH
71	18485A0328	RAYAVARAPU SANJAY KUMAR
72	18485A0329	KOLUKULA GURU PRAVEEN
73	18485A0330	PAMPANA DURGA NAVEEN
74	18485A0331	CHENNURU PHANI KUMAR
75	18485A0332	VELIVENTI NAGA VENKATA SAI PRABHAKAR
76	18485A0333	JASTI ROHITH SAI
77	18485A0334	KAGITHA LOKESH
78	18485A0335	KOLLAREDDY PRANEETHREDDY
79	18485A0336	LUKKA CHAITANYA KUMAR
80	18485A0337	MATTA NARESHBABU
81	18485A0338	NALLURI VAMSI KRISHNA
82	17481A03A5	UPPALA VIVEK
83	17481A03A6	VADELLI NAGA RAJU
84	17481A03A7	VALLURU PAVAN KUMAR
85	17481A03A8	VAMPUGANI SUMANTH
86	17481A03B0	VASANA HIMA ANANTHNAG
87	17481A03B1	VATRAPU KOMALI (W)
88	17481A03B2	VEERANKI KONDA BABU

89	17481A03B3	VEERLA HARISH
90	17481A03B4	VELCHURI NAGESWARA RAO
91	17481A03B5	VEMURU PRAVEEN KUMAR
92	17481A03B6	VIRIVADA JOHN BABU
93	17481A03B8	YEGI VIVEK VAMSI
94	17481A03B9	PINNAMAREDDY TABITHA JHANSI (W)
95	17481A03C0	KURAMA PAVAN KUMAR
96	17481A03C1	PULIVARTHI KARNA TEJA
97	17481A03C2	GEDELA JOGA RAO
98	17481A03C5	PEGADA RAVI TEJA
99	17481A03C6	GATTU VENKATA RAJASEKHAR
100	17481A03C7	KODALI PRASANTHA RAJU
101	17481A03C8	KOLLURI BERYL SAMUDRALU
102	17481A03C9	DANDUBOYINA KUMAR SWAMY
103	17481A03D0	TUNDURU SUBBA RAJU
104	17481A03D1	SADINENI JAYA KRISHNA
105	17481A03D2	KOLAPALLI SAI KRISHNA SATHWIK
106	17481A03D3	MURALA ANJANEYA VENKATA VARA PRASAD
107	17481A03D5	GANJI PAVAN KUMAR
108	17481A03F0	MADALA MANIKANTA
109	17481A03F1	GANDREDDI APPALA RAJU
110	17481A03F2	ATLURI RAVI TEJA
111	18485A0339	BHATTA RAHUL SANDEEP
112	18485A0348	VEERAVARAPU GOWTHAM
113	18485A0349	JAMMULA GOPI
114	18485A0350	DEVINENI TEJA CHANDRA RAVIKUMAR
115	18485A0351	PASUPULETI KRISHNA SAI RAM
116	18485A0352	ANNENU YAGESWARA RAO
117	18485A0353	PALAKOLLU RUSHINDRA KUMAR
118	18485A0355	MUNAKALA MADHU
119	18485A0356	POLAGANI VENKATA SAI ABHIMANYU
120	18485A0357	REDDI NAVEEN
121	18485A0358	TATA YAYATHI NAGA KALYAN
122	18485A0359	VATAPALLI SIVA DEV

H. M. E.
H.M.E

PROGRAM REPORT

- Name of the Program** : Guest Lecture on "**Piping Design**"
- Dates** : 24.04.2020
- Details of the Resource Person** : Sri. B. Pardhasaradhi, Senior Engineer at PM Group
Ireland, Bangalore
- Objective of the Program** : To create awareness and Job opportunities in the area
of Piping Design
- Outcome of the Program** : Able to understand the challenges and opportunities in
the field of Piping design
- No. of Participants** : 122
- Concluding Remarks** : The speaker has explained various challenges and skills
required to acquire the opportunities in the area of
piping design.


Coordinator


H.M.E.