

GUDLAVALLERU ENGINEERING COLLEGE

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

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 25.03.2021.

CIRCULAR

All the faculty are here by informed that Mechanical Engineering Department is conducting a guest lecture on “**PIPING DESIGN**” by **B. Pardha Saradhi, Senior Engineer at PM Group Ireland., Bangalore**, on 27th March 2021 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.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 25.03.2021.

CIRCULAR

All the III B. Tech. Mechanical Engineering Students are hereby informed to participate in a guest lecture on “**Opportunities in Piping Design**” by Mr. B. PardhaSaradhi, Sr. Engineer, PM Group Ireland, on 27th March 2021 without fail.

Venue: Mechanical Seminar Hall (N216)

Time: 01.30PM to 04.00 PM

H.M.F.

18



IE (I) STUDENT CHAPTER



In association with

MECHANICAL ENGINEERING ASSOCIATION

Is Organising

Guest Lecture on Piping design

on

27th March – 2021



**Department of Mechanical Engineering
Seshadri Rao**

Gudlavalleru Engineering College

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

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

27.03.2021



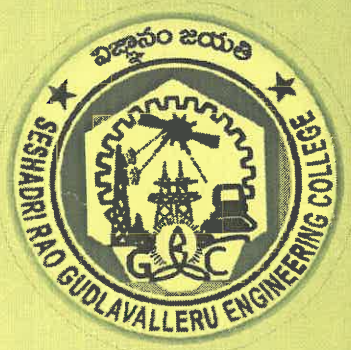
DEPARTMENT OF MECHANICAL ENGINEERING

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 system,
Cooling Tower, Heat Exchangers (HRSG),
Pumps, Cranes & Hoists, Hydraulics
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 irrogation 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:

- Indonasia 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 Singhitarai 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)

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Seshadri Rao Knowledge Village, Gudlavalleru – 521356, Krishna District (A.P.)

Department of Mechanical Engineering

Attendies List for Guest Lecture on "Piping Design" on 27.03.2021

S.No.	Roll No	Name of the Student
1	18481A0301	AALA RAJASEKHAR
2	18481A0302	ABDUL ABID
3	18481A0303	AKASH MAILA
4	18481A0304	AKURATHI GOWTHAM KUMAR
5	18481A0305	ALLAM VENKATESH
6	18481A0306	ALLURI VEERA HANUMAN
7	18481A0307	AMBATI GANESH BABU
8	18481A0308	APPALAKUTTI VAMSI KRISHNA
9	18481A0309	ARAVAPALLI LOKESH KUMAR
10	18481A0310	ARUMALLA BHANU SYAM KUMAR
11	18481A0312	BACHU AJAY SAI MADHAV
12	18481A0316	BEZAWADA GOVARDHAN RAO
13	18481A0317	BODIPOGU PAVAN KUMAR
14	18481A0318	BORRA SAI MAHESH
15	18481A0322	CHENNA SAI RAM KUMAR
16	18481A0323	CHERUKUVADA NEERAJ RAM
17	18481A0324	CHIMMA SANJAY KIRAN
18	18481A0325	CHUKKA BHEEMESH
19	18481A0326	CHUNDURU SUBRAHMANYA KUMAR
20	18481A0329	DASARI DOONDI YESHWANTH
21	18481A0331	DASARI TEJA KUMAR
22	18481A0332	DEGALA HARI SAI TEJA
23	18481A0334	DUDDU TEJA SAI PRAVEEN
24	18481A0335	DUMPALA BHANU PRAKASH
25	18481A0337	GANJI SANDEEP
26	18481A0338	GEDDAM PRAVEEN REDDY
27	18481A0341	GORIPARTHI PREM KUMAR
28	18481A0343	GORIPARTI JAYARAM
29	18481A0344	GUDIGUNTLA VIJAY
30	18481A0345	GULIPALLI HANEESH
31	18481A0346	GUMMADDI SUSANTH
32	18481A0348	IDAMAKANTI BRAHMA REDDY
33	19485A0301	BOTLA KEERTHI SRIDATTA
34	19485A0303	CHINTA VEERA VENKATA SUBRAHMANYAM
35	19485A0304	GUGULOTHU NAVEEN NAIK
36	19485A0305	ADOTHU ESHWAR
37	19485A0306	CHANDANA ARUN KOWSHIK
38	19485A0307	CHOPPAVARAPU NEERAJ
39	19485A0308	DASARI KRISHNA VAMSI
40	19485A0309	KALIDINDI RAKESH
41	19485A0310	MUDRAGADDA KRUPA PAUL
42	18481A0352	BATTIPATI NIKITHA
43	18481A0353	ILURI MOUNIKA
44	18481A0356	KALUMURI RAJA VENKATA YESHWANTH
45	18481A0357	KANDALA ROHITH
46	18481A0358	KANKATA RUSHIKETH

Attendies List for Guest Lecture on "Piping Design" on 27.03.2021

S.No.	Roll No	Name of the Student
47	18481A0359	KANUMURI BHARATH BABU
48	18481A0361	KARETI AJAY BABU
49	18481A0362	KATAM SAMUEL MORRIS
50	18481A0363	KATIKINA TARAKA SIVA DURGHA RAO
51	18481A0364	KATTEPOGU DILEEP
52	18481A0365	KATURI SAI KIRAN
53	18481A0366	KHIZARUR RAHAMAN
54	18481A0367	KODURU VINAY PRASANTH
55	18481A0369	KOLUSU NAGA VIJAYKUMAR
56	18481A0371	KOTA VENKATA PAVAN TEJA
57	18481A0372	KOVURU SAI SARATH
58	18481A0373	KOVVALI RAKESH
59	18481A0376	MAHALI GIREESH VARMA
60	18481A0377	MAHAMMAD IQBAL
61	18481A0378	MAKKENA LEELA HARISH
62	18481A0379	MALLEMPALLI JOHN EBENAZAR
63	18481A0381	MANDE SAM GABRIEL
64	18481A0383	MANNEM LOHITH BALAJI
65	18481A0385	MEENIGA NAVEEN KUMAR
66	18481A0386	MEKALA RAHUL
67	18481A0387	MOHAMMAD KHAJA MOIN
68	18481A0388	MOKA TARUN KUMAR
69	18481A0389	MOTUPALLI PRADEEP
70	18481A0390	MURALA ASWINI GOWD
71	18481A0391	MURARI DEVA PRAKASH GOWD
72	18481A0392	MUTYALA BALA VEERA VENKATA VINAYBABU
73	18481A0393	NAIDU LOKESH
74	18481A0395	NARU SIVAREDDY
75	18481A0396	NELUPURI SANDEEP
76	18481A0397	NERUSU YASWANTH BABU
77	18481A0398	NIDADHAVOLU KESAVA SAI MURALI KRISHNA
78	18481A03A0	NUNE NAVEEN
79	18481A03A1	POTHANA YAMINI (W)
80	19485A0312	JAKKULA MAHESH
81	19485A0313	JAKKULA SUNAND
82	19485A0314	KOLUKULA JAYA NAGA CHAITANYA
83	19485A0316	PANDRAJU VIJAYA SRI
84	19485A0317	SRIKAKULAM VEERA VENKATA NAGA DURGA PRASAD
85	19485A0318	SRIPATHI ALEKHYA
86	19485A0319	KANCHARLA MADHU KUMAR
87	19485A0322	PINJALA YOGESH SIVA PURNA
88	19485A0323	VENNAPUSA LAKSHMA REDDY
89	18481A03A2	PACHIGORLA TIRUMALA
90	18481A03A3	PADALA CHAITANYA KUMAR
91	18481A03A5	PASUPULETI V V S NARASIMHA PRAKASH
92	18481A03A6	PATAPATI RAMESH
93	18481A03A7	PEKETI KARTHIK REDDY
94	18481A03A8	POLUKONDA SRIDHAR
95	18481A03A9	PONUGUMATI NITEESH
96	18481A03B0	PRESINGU SAI
97	18481A03B2	PULLAGURA MANOJ KUMAR
98	18481A03B3	PULLETIKURTHI KANAKA VENKATA SAI PRIYATHAM

Attendees List for Guest Lecture on "Piping Design" on 27.03.2021

S.No.	Roll No	Name of the Student
99	18481A03B4	PUPPALA TRINADH
100	18481A03B5	PUTLURI RAM MOHAN REDDY
101	18481A03B6	RAGHUMANDALA KRANTHI KUMAR
102	18481A03B7	RAJULAPATI SHYAM VENKAT RAM
103	18481A03C1	REJETI SRI RAM
104	18481A03C3	SAJJALA KRISHNA TEJA
105	18481A03C4	SAMMETA VENKATA SHESHA SIVA SAI NEERAJ
106	18481A03C8	SHAIK BARKATHALI
107	18481A03C9	SINGAVARAPU CHANDU
108	18481A03D0	SWARNA NAGA VENKATA MANIKANTA
109	18481A03D1	SYKAM VENKATA NAGENDRA KARTHIK KUMAR
110	18481A03D2	TADANKI BHARGAV TEJA
111	18481A03D3	THOTA NAGA ARAVIND
112	18481A03D4	THOTA SIVA SANKAR
113	18481A03D5	TURAGA KRISHNA KOUSHIK
114	18481A03D6	VANNEMREDDY SIVA KANTH
115	18481A03D8	VASA VENKATA ARAVIND
116	18481A03D9	VEERABATHINA SIDDARTHA
117	18481A03E0	VEKANURU BALA VAMSI
118	18481A03E1	VEMIREDDY AKHIL
119	18481A03E4	YALLA THOMAS FINNY
120	18481A03E5	YARLAGADDA GNANENDRA VAMSI
121	18481A03E6	YARLAGADDA OM PRAKASH CHAND
122	18481A03E8	YARRAMSETTI TEJESWAR
123	18481A03E9	YENUMULA SAI SANDEEP
124	18481A03F0	YERUKAPATI SANJAY KUMAR
125	19485A0326	SHAIK RIYAZ
126	19485A0328	SOBBANA CHANDRAHASS JOSHI
127	19485A0330	VAKA SURYA RAVI TEJA
128	19485A0332	VUJJI DHARMENDRA SAI KUMAR
129	19485A0335	SRAVANAM DANESH
130	17481A0305	ATHANTI VARDHAN
131	17481A0323	DHARANIKOTA UMA MAHESH

AT
H.M.E.

PROGRAM REPORT

- Name of the Program** : A Guest Lecture on "**Introduction to Piping Design**"
- Dates** : 27.03.2021
- Details of the Resource Person** : Sri. B. Pardha Saradhi, Senior Engineer at PM Group Ireland, Bagalore
- Objective of the Program** : To impart hands on training on ANSYS Workbench
- Outcome of the Program** : Students are able to perform FEM analysis for Static, Thermal and Vibration problems
- No. of Participants** : 131
- Concluding Remarks** : ANSYS is a powerful FEM tool which solves all the engineering problems. This program has given insights into the ANSYS software and leads to solve the Engineering problems using the tool.


Coordinator


H.M.E.
Head of the Department
Mechanical Engineering
Seshadri Rao
Gudlavalleru Engineering College
Seshadri Rao Knowledge Village
Gudlavalleru - 521 356, Krishna District, A.P.