Public Awareness e-Newsletter

Kudankulam Nuclear Power Project

February 2013 Issue - 8

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Vivekananda Rock Memorial at Kanyakumari

Dear colleagues,

February 2013 had been a very active month. A walkathon in Chennai Marina beach, exhibitions at Chennai, seminars at various places and continuous visit of students and public to KKNPP site….various dimensions of public outreach activities. Your continuous appreciation and encouragement will help us to widen the PA activities.

Chairman, PA Committee

Public Voice

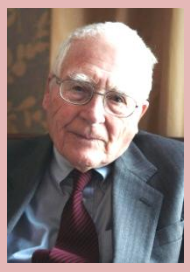
we are very thankful to you for giving a memorable day to the students and staff of Govt. Higher Ssecondary School, Mylachal, Thiruvananthapuram on 12/02/2013.

With this visit, We, now realise that Nuclear energy is not a matter of fear and it is an inevitable thing to console our energy crisis. We express our sincere gratitude to you and the whole staff of KKNPP for their endeavor to lead our nation to a self reliant power country.

We would also like to convey our heartiest regards & best wishes for the early commissioning of this prestigious project.

Smt. Princy Lali
Principal, Govt. HSS, Mylachal, TVPM.
(Feedback received after visiting KKNPP site)

"I hope that it is not too late for the world to emulate France and make nuclear power our principal source of energy. There is at present no other safe, practical and economic substitute for the dangerous practice of burning carbon fuels".



Professor Lovelock, a Green Guru
(Author of the Gaia hypothesis and was among the first researchers to sound the alarm about the threat from the greenhouse effect.)

NPCIL Mission:

To develop nuclear power technology and to produce Nuclear Power as a safe, environmentally benign and economically viable source of electrical energy to meet the increasing needs of country.

"Russian science is of the highest order, their technology is second to none in the world. We are very happy to have this technology and we are proud to have the best reactor in the world.

It is extremely safe plant, it is a plant which has been designed and built to the current standards of safety. Infact, it is known as a third generation plus (3G+). That means the safety features involved in Kudankulam are as of today, they are the latest, it is extremely safe reactor, there is absolutely no fear of safety as far as Kudankulam is concerned,"

Dr. K. Balu
Former Director, Nuclear Waste Management Group, BARC.

Technical session - VVER Technology

Generator

KKNPP consists of two 1000 MWe Turbo-Generator sets to supply electric power to southern region grid. The generation voltage of turbo-generator is 24 KV, 50 Hz. The generator is a three phase, non-salient pole synchronous electric generator. The stator of the generator is built up from three parts and the rotor is a single forging. The stator is water-cooled and rotor is hydrogen cooled which in turn is cooled by water. The voltage of generator is automatically maintained by voltage regulator.

PA activity conducted at KKNPP Site:

As a part of Public Awareness programme, Students and staff of Schools and Colleges (Science, Polytechnic & Engineering) of Tirunelveli, Thoothukudi and Kanyakumari districts visited KKNPP and they were familiarized with the Safety features of KKNPP and the concept of Radiation Protection.

Institution	Number of visit	Number of persons	Number of Publications distributed
Schools	8	668	1340
Science Colleges	1	60	240
Polytechnic colleges	-	-	-
Engineering Colleges	1	138	400
Villagers	7	302	640
Total	**17**	**1168**	**2620**

KKNPP officials briefing the students of Govt. High School, Chidambarampatti, Tuticorin district.

A glimpse from Exhibition held at Noorul Islam University, Kumaracoil, Kanyakumari District.

Site director and officials from KKNPP with organizing team- Anna University, Chennai during walkathon held at Marina Beach, Chennai.

Public awareness outreach programme conducted outside KKNPP:

Institution/Workshop/Seminar	Date	No. of participants	No. of Publications distributed
Chennai Science Festival - Exhibition	Feb 1-3	6000	26000
State Govt employees Sports Meet	Feb 2	650	1500
PA program at Srirenganarayanapuram	Feb 7	100	400
Walkathon at college of Engg. Guindy Chennai	Feb 10	650	500
Noorul Islam, Nagercoil	Feb 20-22	2000	3000
PA program at Navaladi	Feb 21	300	1200
TECHOFES-2013, Anna University, Chennai	Feb 20-23	4000	18200
Easa college of Engineering, Coimbatore	Feb 26	300	300
Excel college of Engineering, Erode	Feb 27	300	300
Total		**14300**	**51400**

Public awareness campaign at Srirenganarayanapuram village on Feb 07, 2013

Public awareness campaign at Navaladi village on Feb 21, 2013

Feature article: Q&A from Dr.M.R.Srinivasan, Ex Chairman, Atomic Energy Commission

Q: **Will fishing activities be affected adversely at Kudankulam due to nuclear power plant?**

A: Sea water temperature at Kudankulam varies from 23ºC during the monsoon to 29ºC during summer. The maximum temperature rise due to cooling of the power station is 7ºC. Hence, the maximum sea water temperature will be less than 36ºC, at all times. This is well below the caution limit of 38.2ºC, when marine life could get affected.

Experience at Tarapur and Kalpakkam shows that there has been no adverse impact on fishing as a result of the power station.

The world over, nuclear power units are located on sea coasts or river banks. Ensuring that fishing activities continue unhindered is an objective of the station design. At Kudankulam a 'fish protection system' has been incorporated whereby fish travelling into the intake are diverted back into the sea. Thus fish and marine life will spawn as they have done when the power station was not in existence.

Did you know?

To generate 2000 MW, equal to two 1000 MW Kudankulam units, we will need 800 units of 2.5 MW size wind turbines. For 800 such units, the land area required is very large, apart from large investment. We must also note that wind does not blow all the time and does not produce more than 25% of full capacity in a year. But the performance of nuclear power plant found to be more than 90% of full capacity throughout the year.

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