

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.1905
TO BE ANSWERED ON 10.12.2015**

NATIONAL POWER TRAINING INSTITUTE (NPTI)

**1905. SHRI K.C. VENUGOPAL:
SHRI VENKATESH BABU T.G.:**

**Will the Minister of POWER
be pleased to state:**

- (a) whether National Power Training Institute (NPTI) has been imparting training to the professionals of Central Public Sector Undertakings and State Electricity Undertakings since its establishment;**
- (b) if so, the details thereof along with the number of persons trained during each of the last three years;**
- (c) whether it is also proposed to expand its capacity in the coming years including overseas training and to set up regional institutes in some more States in the country and if so, the details thereof; and**
- (d) the time by which National Power Training institute at Allappuzha is likely to be made operational along with the courses to be taught at the institute?**

A N S W E R

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER,
COAL AND NEW & RENEWABLE ENERGY**

(SHRI PIYUSH GOYAL)

(a) & (b) : Yes, Madam. NPTI conducts several long-term, medium-term and short-term training programs in the areas of Thermal, Hydro, Transmission & Distribution, Management and Regulatory Affairs etc. and also, customized training programs for Central Public Sector Undertakings and State Electricity Undertakings. The details of such training programs conducted in the last three years and number of persons trained during each of the last three years are at Annex.

(c) & (d) : The Government has sanctioned two new power training institutes of NPTI, one each at Alappuzha, Kerala and Shivpuri, Madhya Pradesh in order to enhance the capacity of National Power Training Institute (NPTI). The Institute at Alappuzha, Kerala has been sanctioned on 11th December, 2013 with a completion schedule of three

years. The following courses are expected to be taught at the new Institute at Alappuzha, Kerala:

- **Post Graduate Engineers Course (Thermal),**
- **Post Graduate Engineers Course (Hydro),**
- **Post Diploma Course (Thermal),**
- **Post Diploma Course (Hydro),**
- **Post Graduate Course (O&M Transmission and Distribution system),**
- **Post Graduate Course (O&M Sub-Transmission and Distribution system),**
- **Various short term Courses in the areas of Power Generation, Transmission, Distribution, Regulatory Affairs, Commercial matters etc.,**
- **Various medium term courses in the areas of Power Generation, Transmission, Distribution, Regulatory Affairs, commercial matters etc.,**
- **Induction Training Program to Engineer Trainees of various organization of public sector and private sector,**
- **Various General Management Programs,**
- **Computer Applications,**
- **Operation of Simulators (Hydro), and**
- **Operation of Simulators (Thermal).**

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1905 TO BE ANSWERED IN THE LOK SABHA ON 10.12.2015.

Details of Training Programs of CPSUs / SEB for the Year 2012-13			
Sl. No.	Name of the Course	Name of Client Organization	No. of Trainees
1	Induction Training, RRVUNL	RRVUNL	50
2	Promotional training program for Manager, DTL	DTL	9
3	Induction Training PGCIL	PGCIL	124
4	Induction Training program for NBPPPL, Noida	NBPPPL, Noida	20
5	Technical and Management Training for GETs of OTPC, Tripura	OTPC Tripura	7
6	Induction Training ETs of PGCIL	PGCIL	86
7	Induction-cum-Orientation Training – NHPC Executives	NHPC Ltd.	25
8	Induction-cum-Orientation Training – NHPC Executives	NHPC Ltd.	40
9	Induction-cum-Orientation Training – NHPC Executives	NHPC Ltd.	43
10	Residential Training program of Official of EDC Ballabgarh, PGCIL	PGCIL	46
11	Technical & MGT training for GETs of OTPC, Tripura	OTPC Tripura	10
12	PPF – Sr. Executives from NHPC	NHPC Ltd.	10
13	Induction cum Orientation program for NHPC	NHPC Ltd.	59
14	Induction cum Orientation program for NHPC	NHPC Ltd.	32
15	L&D Training Program on Regulatory frame works of Indian Power Sector, POSOCO	POSOCO	43
16	L&D Training Program on regulatory frame works of Indian Power Sector, POSOCO	POSOCO	41
17	Power System Communication for DVC Engineers	DVC	10
18	Induction Program	PTCUL	23
19	Coal Mills & Milling System for NTPC	NTPC Ltd.	2
20	Operation & Mtce. of Thermal Power Plant-NTPC	NTPC Ltd.	18
21	Promotional Training Programme-DTL	DTL	20
22	Promotional Training Programme-DTL	DTL	23
23	Turbine & Turbine Auxiliaries in Power House-NALCO	NALCO	8
24	Scheme Turbine & its Auxiliaries Operation -HPGCL	HPGCL	8
25	Boiler & Boiler Auxiliaries in Power House -NALCO	NALCO	12
26	Condition Monitoring Tech. in Power System-NALCO	NALCO	16
27	Coal mill and mining system maintenance-HPGCL	HPGCL	7
28	Boiler and its auxiliaries-HPGCL-NALCO	HPGCL, NALCO	24
29	Maintenance of boiler rotary machine HPGCL	HPGCL	5
30	General Maintenance Practices of Major Electricals & Mechanical Equipments in Power Plant TM -NALCO	NALCO	14
31	Ash Handling System in Power and Cooling Operation and Maintenance-NALCO	NALCO	24
32	Refreshers Training for Operators & Technicians (NALCO)	NALCO	19
33	Refreshers Training for Operators & Technicians (NALCO)	NALCO	40
34	250 MW simulator BBMB	BBMB	6
35	250 MW simulator BBMB	BBMB	15
36	250 MW simulator BBMB	BBMB	5
37	250 MW simulator BBMB	BBMB	8
38	250 MW simulator BBMB.	BBMB	6
39	500/600MW TPP for TANGEDCO	TANGEDCO	26

40	500/600MW TPP for TANGEDCO	TANGEDCO	45
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41	Institutional training for graduate engineers of CSPTCL	CSPTCL	22
42	One week training on PID for trainees of MSETCL	MSETCL	14
43	Familiarization Training Programme on 400 kv cold lines for M/s.Power Grid – (NER,Guwahati&ER,Patna)- 8 th batch	POWEGRID	25
44	One week training on Punctured Insulator Detection for trainees of MSETCL	MSETCL	18
45	One week training on Punctured Insulator Detection for trainees of MSETCL	MSETCL	37
46	One week training on Punctured Insulator Detection for trainees of MSETCL	MSETCL	18
47	14 th On site Live Line Insulator Washing at MSETCL, Akola, Maharashtra.	MSETCL	20
48	15 th On site Live Line Insulator Washing at MSETCL, Kolhapur, Maharashtra.	MSETCL	22
49	6 Weeks training program on “Thermal Power Plant”	IL&FS-Tamil Nadu Power Company Limited & PPN Power Generating Company Pvt. Ltd.	10
50	2 Weeks Orientation training program in 500/600 MW Thermal Power Plants for the Assistant Engineer/Trainees of TANGEDCO, Tamil Nadu	TANGEDCO	53
51	2 Weeks Orientation training program in 500/600 MW Thermal Power Plants for the Assistant Engineer/Trainees of TANGEDCO, Tamil Nadu	TANGEDCO	55
52	2 Weeks Orientation training program in 500/600 MW Thermal Power Plants for the Assistant Engineer/Trainees of TANGEDCO, Tamil Nadu	TANGEDCO	48
53	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	10
54	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	13
55	2 Days short term training program on Operation & Maintenance of Coal Mills & Feeders” for NALCO	NALCO	10
56	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	10
57	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	12
58	O & M of Training Program on “Transformer and Circuit Breaker”- WBSETCL	WBSETCL	25
59	BPSCL Mgt. Trainees	BPSCL	3
60	BPSCL Mgt. Trainees	BPSCL	12
61	02 days workshop on “Boiler Tube Failure” by NPTI at DVC Training Institute, Chandrapura.	DVC	24
62	Customized Trg. Prog. for CSPGCL AEs	CSPGCL	79
63	Customized Trg. Prog. for CSPGCL JEs	CSPGCL	39
64	Orientation Trg. Program on 500/600 for TANGEDCO AEs	TANGEDCO	50
65	Hindi Uni-code Program at BSNL Office Nagpur.	BSNL	31
66	Hindi Uni-code Program	Hindusthan	21

		Petroleum Corpn, Nagpur	
	Total No. of Trainees		1710

Details of Training Programs of CPSUs / SEB for the Year 2013-14

S. No.	Name of the Course	Name of the Client Organization	No. of Trainees
1	Residential Training program for Junior Officers for SJVNL	SJVNL	34
2	Power System Reliability for POSOCO	POSOCO	29
3	Power System Reliability for POSOCO	POSOCO	30
4	Regulatory for State Distribution Companies R-APDRP, Part - C Capacity Building	State Distribution Companies	15
5	IT General R-APDRP, Part-C Capacity Building for State Distribution Company	State Distribution Companies	11
6	IT General R-APDRP, Part-C Capacity Building	State Distribution Companies	19
7	Induction Training program for XVIII Batch GETs from PGCIL	PGCIL	53
8	Learning & Development Training Program on Regulatory frame works for Indian Power Sector , POSOCO	POSOCO	26
9	AUTO CAD for NHPC	NHPC	20
10	VB.Net for NHPC	NHPC	28
11	Induction-cum-Orientation program for Graduate Engineer Trainees NHPC	NHPC	19
12	Refresher training program on Thermal Power Plant VSP	Vishakhapatnam Steel Plant	12
13	Regulatory framework in Power Sector POSOCO	POSOCO	15
14	Renewable Energy Generation-Concept to Commissioning for NHPC	NHPC	19
15	Power System Stability & Control for POSOCO	POSOCO	42
16	M. Tech. Engineers Batch from PGCIL	PGCIL	61
17	Seminar on Fundamentals of Power flow for POWERGRID Employee Development Centre, Hosur	PGCIL	25
18	Turbine & its Auxiliaries in Power House for NALCO	NALCO	16
19	Induction Training on Transmission & Distribution for RECPDCL	RECPDCL	17
20	Boiler and its Auxiliaries for NALCO	NALCO	34
21	Operation and Maintenance of Mills & Milling system for NALCO	NALCO	20
22	Operation & Maintenance Practices of Major Electrical/Mechanical Equipments in Power Plant for NALCO	NALCO	26
23	Refresher Course on Operation & Maintenance of Thermal Power Plants for NTPC	NTPC	20
24	Boiler & Auxiliaries for NALCO, Angul	NALCO	22
25	O&M Boiler & Auxiliaries for NALCO, Damanjodi	NALCO	12
26	O&M of Coal Handling Plant and Water Treatment Plant for NALCO, Angul	NALCO	27
27	O&M of Power System for PTCUL	PTCUL	30
28	O&M of Major Electrical /Mechanical Equipments for	NALCO	34

	NALCO		
29	O&M of Power System for PTCUL	PTCUL	30
30	Information Technology and Hindi for Oriental Bank of Commerce	OBC	20
31	Information Technology and Hindi for Oriental Bank of Commerce	OBC	23

32	O&M of Ash Handling and Cooling Towers for NALCO	NALCO	23
33	O&M of Power System for PTCUL	PTCUL	30
34	Latest Trends in O&M of Thermal Power Stations for NALCO	NALCO	27
35	O&M of Power System for PTCUL, Uttarakhand	PTCUL	30
36	Steam Turbine & Auxiliaries for NALCO	NALCO	25
37	Customized training programme on Hydro Power for UJVNL	UJVNL	22
38	Customized training programme on Hydro Power for UJVNL	UJVNL	25
39	Customized training programme on Hydro Power for UJVNL	UJVNL	18
40	Erection of Distribution Systems for NHPC Engineers	NHPC	22
41	33/11 KV Switchgear System for NHPC Engineers	NHPC	21
42	One week training on Punctured Insulators Detectors for MSETCL	MSETCL	21
43	Live Line Maintenance Techniques using BSM up to 400 KV Lines for MSETCL	MSETCL	23
44	Electrostatic Precipitator for TAQA-NPCPL, RTPS, KPCL, NTPC	TAQA-NPCPL, RTPS, KPCL, NTPC	12
45	Power Plant Familiarization for IL & FS, TNPC	TNPCL, IL&FS	20
46	On-site training prog. on Generator, Transformer & Switchyard for OPGCL	OPGCL	16
47	Familiarization of 500 MW TPS for DVC Koderma	DVC	13
48	Advanced Power Generation Tech. for DVC	DVC	20
49	Fundamentals of O&M Practices in TPS for DVC	DVC	24
50	Fundamentals of O&M Practices in TPS DVC	DVC	25
51	Familiarization of 500 MW TPS for DVC, Koderma	DVC	13
52	Familiarization of 500 MW TPS for DVC, Koderma	DVC	11
53	Familiarization of 500 MW TPS for DVC, Koderma	DVC	11
54	Familiarization of 500 MW TPS for DVC, Koderma	DVC	13
55	National Seminar on “EPSIPS” in association with POSOCO for WBSEDCL, DVC, IPCL, DPL, MPL, NSPCL, PCBL etc.	WBSEDCL, DVC, DPL, NSPCL etc.	120
56	Familiarization of 600 MW TPS for DVC, RTPS	DVC	16
57	Familiarization of 500 MW TPS for DVC, Koderma	DVC	17
58	Hindi Workshop for ASP, DSP, CMERI, MECON Ltd. DVC, CRPF etc.	ASP, DSP, CMERI, MECON Ltd. DVC, CRPF etc.	72
59	Familiarization of 500 MW TPS for DVC Koderma	DVC	12
60	Induction Training Program for Assistant Engineers from UPRVUNL	UPRVUNL	14
61	210 MW Simulator Training for UPRVUNL	UPRVUNL	14
62	Workshop on Hindi Unicode at BSNL	BSNL	29
63	Hindi – Unicode Program at Hindustan Petroleum Corpn. Ltd., Nagpur	Hindustan Petroleum	65

		Corporation Ltd.	
64	Power Plant Chemistry for Operation Engineers of PSPCL, HPPCL, GIPCL, THDC	PSPCL, HPPCL, GIPCL, THDC	20
	Total No. of Trainees		1633

Details of Training Programs of CPSUs / SEB for the Year 2014-15			
S. No.	Name of the Course	Name of client Organization	No. of Trainees
1	Induction training program – PPF Hydro	Satluj Jal Vidyut Nigam Ltd.	40
2	Induction training program – PPF Hydro	Satluj Jal Vidyut Nigam Ltd.	43
3	Induction training program – PPF Hydro	Satluj Jal Vidyut Nigam Ltd.	41
4	Training program on ‘Distribution Systems’	Assam Power Distribution Ltd.	19
5	ABT and Power Trading	NHPC Ltd.	14
6	Electricity Act, CERC & SERC	NHPC Ltd.	18
7	Thermal Power Plant Engineering	NHPC Ltd.	16
8	Power System Economics	POSOCO - NLDC, RLDCs, SLDC’s	27
9	Power System Reliability	POSOCO - NLDC, RLDCs, SLDC’s	16
10	Refresher Training Program	NALCO	22
11	Refresher Training Program	NALCO	22
12	Specialized training program for System Operators	POSOCO - NLDC, RLDCs, SLDC’s	16
13	DSM & Energy Efficiency	WESCO, MPKVVCL	26
14	Refresher Training Program	NALCO	28
15	Regulatory Framework in Power Sector	POSOCO - NLDC, RLDCs, SLDC’s	30
16	Awareness Program on Labor Law	PGCIL, Gurgaon	48
17	Refresher Training Program	NALCO	28
18	Special Program for Diploma Engineers	NTPC Ltd.	19
19	Promotional Training Program	Delhi Transco Ltd.	37
20	Simulator training	Satluj Jal Vidyut Nigam Ltd.	11
21	Power System Protection	From different Utilities	15
22	High Voltage Testing of PSE	From different Utilities	17
23	Power System Reliability	From different Utilities	18
24	Management of electrical contracts	From different Utilities	15
25	Power System Reliability	From different Utilities	17
26	PSO	From different	35

		Utilities	
27	PS communications SCADA & EMS	From different Utilities	22
28	O&M of Power&Distribution Transformers	From different Utilities	14
29	Power Quality Harmonics and Reactive Power Management	From different Utilities	19
30	Substation Planning & Engineering	From different Utilities	11
31	O&M of Transformers & Circuit breakers	From different Utilities	12

32	High voltage testing of PSE	From different Utilities	14
33	Power system operation	From different Utilities	24
34	96th LLMT Using Hot Stick Method	MSETCL, KPTCL, MPPTCL, HVPNL	28
35	9th Familiarization Training programme on 400 KV Cold lines	KPTCL	21
36	10th Familiarization Training programme on 400 KV Cold lines	KPTCL	20
37	12th Switchyard maintenance Techniques using LLMT	APTRANSCO	28
38	33rd Capsule Course for Executives in Hot Line Activities	POWERGRID	14
39	20th Live Line Maintenance Techniques Using Bare Hand Methods(BHM) up to 400Kv Lines	TNEB, GETCO , MSETCL, APTRANSCO	29
40	O&M of Power Plants	NLC,Tuticorin	14
41	500 MW Power Plant Operation	NTPL, Tuticorin	13
42	“500MW Power Plant Familiarisation	NTPL, Tuticorin	11
43	Thermal Power Plant Familiarisation	MALCO Energy Ltd.	10
44	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	16
45	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	17
46	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	17
47	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	17
48	O&M of Substation and Distribution System	BCCL	24
49	Adv. Training Prg. On 500 MW Tp. Statio	WBPDC	26
50	16 weeks competency Development for NEEPCO-1st Batch	NEEPCO	16
51	03 weeks Training for Managers (Elect.) on” Substation Design and O&M” (MSPCL, Manipur)	MSPCL	15
52	Attitude Skill Development- NEEPCO- Liaison Officers -3rd Batch	NEEPCO	26
53	Boiler Water Chemistry & Steam Turbine Maintenance - (NEEPCO- On site)	NEEPCO	20
54	Training of Master Trainers on Demand Side	APDCL	21

	Management and Energy Efficiency Under Capacity Building of DISCOMs Program		
55	Power Plant Familiarization	PSPCL	20
	Total No. of Trainees		1177

Total No. of Trainees Trained from SEBs/ CPSUs in 2012-13 – 1710

Name of the SEBs /CPSUs

- **BSNL**
- **Bhakra Beas Management Board**
- **Bokaro Power Supply Company Ltd.**
- **Chhattisgarh State Power Transmission Company Ltd**
- **Chhattisgarh State Power Generation Company Ltd**
- **Central Railways**
- **Delhi Transco Ltd.**
- **Damodar Valley Corporation**
- **Haryana Power Generation Corporation Ltd.**
- **Hindustan Petroleum Corporation Ltd.**
- **IL&FS Tamilnadu Power Company Ltd.**
- **Maharashtra State Electricity Transmission Company Ltd.**
- **NALCO, Odisha**
- **NHPC Ltd.**
- **NTPC Ltd.**
- **NTPC BHEL Power Projects Private Limited**
- **POSOCO**
- **Power Transmission Corporation of Uttarakhand Ltd.**
- **Power Grid Corporation of India Ltd.**
- **Rajasthan Rajya Vidyut Utpadan Nigam Ltd.**
- **TANGEDCo**
- **West Bengal State Electricity Transmission Company Ltd.**

Total No. of Trainees Trained from SEBs/ CPSUs in 2013-14 – 1633

Name of the SEBs /CPSUs

- **BSNL**
- **Central Board of Irrigation & Power**
- **Central Electricity Authority**
- **Central Excise & Customs, Nagpur**
- **Department of Atomic Energy**
- **Damodar Valley Corporation**
- **Forum of Regulators**
- **Himachal Pradesh Power Corporation Ltd.**
- **Hindustan Petroleum Corporation Ltd.**
- **IL&FS Tamilnadu Power Company Ltd.**
- **Gujarat industrial Power Corporation Ltd.**
- **Karnataka Power Corporation Ltd.**
- **Maharashtra State Electricity Transmission Company Ltd.**
- **MNRE**
- **MECON Ltd.**
- **NALCO, Odisha**
- **NHPC Ltd.**
- **NTPC Ltd.**
- **NTPC-SAIL Power Company Ltd.**
- **Odisha Power Generation Corporation Ltd.**
- **Oriental Bank of Commerce**
- **POSOCO**
- **Power Transmission Corporation of Uttarakhand Ltd.**
- **Power Grid Corporation of India Ltd.**
- **Punjab State Power Corporation Ltd.**
- **REC Power Distribution Company Ltd.**
- **Satluj Jal Vidyut Nigam Ltd.**
- **Tehri Hydro Development Corporation Ltd.**
- **UP Rajya Vidyut Utpadan Nigam Ltd.**
- **Uttarakhand Jal Vidyut Nigam Ltd.**
- **Vishakhapatnam Steel Plant**
- **West Bengal State Electricity Distribution Company Ltd.**

Total No. of Trainees Trained from SEBs/ CPSUs in 2014-15 – 1177

Name of the SEBs /CPSUs

- **Assam Power Distribution Company Ltd.**
- **Andhra Pradesh Transmission Company Ltd.**
- **BCCL**
- **Central Electricity Authority**
- **Delhi Transco Ltd.**
- **Haryana Vidyut Prasaran Nigam Ltd.**
- **Karnataka Power Transmission Company Ltd.**
- **Madhya Pradesh Power Transmission Company Ltd.**
- **Madhya Pradesh Madhya Kshetra Vidyut Vitran Company Ltd.**
- **Maharashtra State Electricity Transmission Company Ltd.**
- **Manipur State Power Company Ltd.**
- **Ministry of Power**
- **Madras Aluminium Company Limited**
- **NEEPCO Ltd.**
- **NALCO, Odisha**
- **Neyveli Lignite Corporation Ltd.**
- **NLC Tamilnadu Power Ltd.**
- **NHPC Ltd.**
- **NTPC Ltd.**
- **POSOCO**
- **Power Grid Corporation of India Ltd.**
- **Punjab State Power Corporation Ltd.**
- **Satluj Jal Vidyut Nigam Ltd.**
- **Tamil Nadu Electricity Board**
- **Western Electricity Supply Company Ltd., Orissa**
- **West Bengal Power Distribution Company Ltd.**
