

# Annexure-A

## Application Form

Training Program on  
"Rooftop Solar Grid Engineers for Utility officers"

PHOTO

Full Name of the Participant :	
Educational Qualification :	
Year of Graduation :	
Date of Birth :	Sex :
Contact number :	Aadhaar Number :
Email ID :	
Address :	
Participant's District :	Participant's State :
Disability, if any :	
Father's Name :	
Name of the participant's organization :	
Designation :	
Current Roles and Responsibilities in the organization :	
Major reasons for attending this training program :	
Date of the Training Program :	

Signature of Applicant :

## World Bank SUPRABHA Technical Assistance Program

Two Day Training Program:  
"Rooftop Solar Grid Engineers for Utility officers"

25<sup>th</sup> -26<sup>th</sup> April, 2019

Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University is organizing Two days Utility Officers training programme on "Rooftop Solar Grid Engineers [QP:SG1/Q0106] under World Bank sponsored "SUPRABHA TA" Program from 25th -26th April, 2019. The training program will have five main sessions focusing on important aspects of Rooftop Solar PV that would be relevant for DISCOM management for inspection and integration of the Rooftop Solar PV systems with the grid across the consumer spectrum. The aim is to provide a thorough understanding to the DISCOM management looking after this sector on the structure of the sector, the business models, solar PV standards and certifications, risks and risk mitigation strategies and integration of the Rooftop Solar PV plant with the grid. This training would enable the trainers to receive an in-depth exposure on the subject and get equipped to effectively train Utility officers to inspect and integrate the Rooftop Solar PV systems with the grid.

Sector Council Green Jobs has developed the modules for Rooftop Solar Grid Engineers as per Qualification Pack SGJ/Q0106 which is approved/certified by National Skill Development Corporation (NSDC) on Industry requirement in the field of Solar Rooftop Grid tied system. After completion of this course assessment and certification will be done by Skill Council for Green Jobs. Skill Council for Green Jobs is one of the industry led ambitious initiatives of the Government of India aligned to the National Skill Development Mission and promoted by the Ministry of New and Renewable Energy (MNRE) and Confederation of Indian Industry (CII).



## Objectives:

### To provide basic information, overview and raise awareness amongst Utility Engineers on the following:

- >> Concepts, components and safety overview with specific focus on technical standards of rooftop solar system/ project
- >> Policy and regulatory framework for rooftop solar at the national and state level
- >> Different implementation/ business models followed in the rooftop solar market and role of stakeholders
- >> Compliance of rooftop solar PV systems with all relevant codes & safety requirements.

### To provide specific information to the Utility Engineers on the following:

- >> Interconnection Procedures
- >> Pre-Commissioning Inspection of the Grid Connected Rooftop Solar PV Power Plant
- >> Post Commissioning Testing of the Grid Connected Rooftop Solar PV Power Plant
- >> Maintain Personal Health & safety at project site



### Contents of the training program

- >> Overview of the Grid Connected Rooftop Solar PV Sector
- >> Major Components of Solar PV Rooftop System and Safety Overview
- >> Site Feasibility and Technical Due Diligence for Solar PV Power Plant
- >> Rooftop solar PV policy, Regulation and Business Models
- >> Administrative procedures for implementing rooftop solar PV projects
- >> Rooftop solar PV systems design and safety considerations
- >> Energy generation analysis and Performance Estimation
- >> Grid connectivity & inspection procedure

**Chief Patron :** Prof. Keshari Lal Verma, Hon'ble Vice-Chancellor  
 Er. Shailendra Kumar Shukla, Chairman, CSPDCL

**Patron :** Praveen Saxena, CEO, Sector Council for Green Jobs

Shri Sanjeev Jain, Chief Engineer, CREDA

Dr. Amit Jain, Renewable Energy Specialist

N. Y. Dinesh Babu, Team Leader, Suprabha

Tanmay Bishnoi, Capacity Building - Lead, WB SUPRABHA TA

### Target Audience

Graduate Engineers/Diploma Electrical, EEE with basic knowledge of Electrical Concepts; Solar Entrepreneurs; Public Sector Undertaking Officials; EPC contractors; MNRE channel partners; Senior Energy Department Officials of Govt. of India and Officers from State Nodal Agencies etc.

Since the program is under RPL category, the eligibility of candidates for the entrepreneurship program should have atleast 6 months experience. Preferably, they should be working entrepreneurs to apply the knowledge and training effectively or should be interested in becoming entrepreneurs

### Assessment and Certification process

Certificate of Participation will be provided under SUPRABHA TA Program by Sector Council Green Jobs.



### Training Materials

Practitioners guides and Presentations will provided as part of the training program. There is no Fee for training but certificate will be issued only to participants who successfully attend all scheduled sessions. Submit your registration forms ("Annexure A") through email (renewable.prsu@gmail.com) or through courier/speed post to Dr. Sanjay Tiwari, Coordinator, Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur-492010, Chhattisgarh at least one week before the start of training.

For further details may contact :-

Dr. Sanjay Tiwari (9424225771), GS Rathore (9827966082), Gopal Krishna (8349640006)

Number of Seats	
No. of Seats	Selection criteria
30	First come First serve basis

## BRIEFS

### Residents of 65 villages still in search of water

■ Staff Reporter  
ARANG, Apr 25

RESIDENTS of 65 villages under the Mandhar Irrigation Sub-Division are still waiting for the water to reach the local ponds even after 15 days of water being released into the main canal from Gangrel Dam.

The water was released on Wednesday evening when people drew the attention of Irrigation Department officials. It's to be noted that delay in water reaching to the local water bodies has created a crisis in the villages, sparking dissent in the villagers.

Some vigilant youths of villages Mandhirhasoud, Kurud, Kurud, Godhi, Sonpairi, Darba, Seoni, Piparhatta, Bahanakadi, Munraithi, Khapri, Dhansuli, Nardaha, Semariya, Kutesar, Badgaon, and Todagaon intimidated Kisaan Sangarsh Samiti convener Bhupendra Sharma about the dire situation.

Sharma submitted memorandum to the Chief Engineer KS Dhruw and Executive Engineer Ajay Shrivastava to draw their attention towards the problems arising at villages under the Mandhar Canal command area.

On the other side, village Nardaha deligation comprising of Janpad member Mayank Tiwari, former Sarpanch Hemlal Verma, Gram Sabha President Holsai Sahu, ex-Janpad Member Chandulal Verma, Ravindra Verma and others also apprised Dhruw about the problems.

## ‘Stop drainage from discharging in Kharun river’



Retired Justice Dharendra Mishra convening meeting.

■ Staff Reporter  
RAIPUR, Apr 25

SOLID Waste Management Rules (2016) Implementation Committee Chairman retired Justice Dharendra Mishra has directed for better management of waste from Railway colonies and stopping the discharge of drainage effluent in river Kharun. Constituted on the direction of the National Green Tribunal (NGT), committee formed for Urban Solid Waste Management rules 2016 implementation convened a meeting under the chairmanship of retired Justice Dharendra Mishra on Thursday.

Addressing the meeting, Mishra asked Railways Management to immediately draft proper plan for disposal of waste from their colonies and produce them in next meet up. He was quite miffed on the railway officials for not acting up on the issue till date and directed for issuing notice to the Municipal Corporation. He also directed Raipur Municipal Corporation (RMC) officials to stop the drainage from discharging effluent in river Kharun and to establish Sewerage Treatment Plant (STP) within limited time frame.

Mishra made a critical remark on Railway Administration for showing callousness in waste disposal. Discussions on organisations harming the environment were also taken place and the Chhattisgarh Environment Conservation Board to start taking action in this context.

While deliberating on the Medical Waste Management, Justice Mishra asked Health officials to set up waste processing centre for biomedical waste at appropriate distance from the big cities.

They shall also take care not to mix up the urban solid waste with the biomedical waste as both need to be processed separately. He also decided to conduct spot inspections of the works undertaken by the Bhilai Municipal Corporation (BMC).

Chhattisgarh Environment Conservation Board member Secretary RP Tiwari also asked all the concerned organisations to conform to the directions within time. All public sector enterprises shall work in accordance to the plan for solid waste management.

RMC, BMC, and civic bodies of Patan, Kasdol, Kawardha, and SECL officials gave presentations on their respective solid waste management plans.

## NYAY Yatra flagged off Capacity building programme for DISCOM officials begin



CPCC In-charge General Secretary Girish Dewangan along with other party leaders flagging off "NYAY Yatra" publicity vehicle.

■ Staff Reporter  
RAIPUR, Apr 25

CHHATTISGARH Pradesh Congress Committee (CPCC) In-charge General Secretary Girish Dewangan flagged off 'NYAY Yatra' publicity vehicle at state party office Rajiv Bhawan on Thursday. The 'NYAY Yatra' publicity vehicle departed for Uttar Pradesh.

Chief Minister Bhupesh Baghel and other senior party leaders will campaign during the Lok Sabha

elections in Uttar Pradesh. CPCC's Communication Department Chairman Shailesh Nitin Trivedi, CPCC General Secretary Arun Bhadra, General Secretary Mahendra Chhabra, Chief Spokesman Sushil Anand Shukla, Spokesman Vikas Tiwari, Secretary Salam Rizvi, CPCC's Cultural Department Chairman Dilip Shadangi, Shamim Akhtar, Rajesh Pandey, Pravin Jain, Prashant Thakkar and Deva Mohanty were present on the occasion.

## Police Jan Mitra Yojana begins

■ Staff Reporter  
RAIPUR, Apr 25

POLICE Department has set in motion the process to establish mutual contact between people and police in rural and urban areas along with boosting confidence in police through the 'Jan Mitra' in town/cities and 'Gram Raksha Samiti' schemes in rural areas.

Director General of Police (DGP) DM Awasthi on Thursday issued directions to all the Superintendents of Police (SPs) under the 'Police Jan Mitra Yojana.' Station House Officers of the respected areas will divide their respective domains in 30 to 40 sectors in accordance to the size of population and hold weekly meet with the residents to learn about their problems.

They shall also educate citizens on modern crimes like cyber crimes, online fraud, chit fund schemes, social media related crimes, crimes against women and children.

Gazetted officers shall ensure their attendance at any one of the meetings of their area. Similarly, SPs shall also attend Police Jan Mitra meeting two times a month. These Jan Mitra committees shall be comprised of some active, clean-image residents of the particular sector.

Their names and mobile numbers shall be registered with the police. The concerned SPs and SHOs shall sort out the problems of the people with full alacrity. SPs shall also appoint nodal officer of Additional SP level in urban and semi-urban areas. Nodal officer shall update a register with fresh data from each sector. Each committee shall be consisted of minimum 10 to maximum 15 members.

## DG Mukesh Gupta shows up for deposition to EOW



Suspended DG Mukesh Gupta going to EOW Head Quarters. (Pic by Rupesh Yadav)

RAIPUR, Apr 25

SUSPENDED Director General (DG) Mukesh Gupta on Thursday gave deposition to Economic Offence Wing (EOW) in the phone tapping case. EOW had sent him notices for deposition in two separate cases following an order issued by the High Court. Gupta came to the EOW after receiving the notices. Sources informed, DG Gupta had objected the presence of Supervisory Officer, but EOW Officials unequivocally told him that the statement will be recorded in the presence of Supervisory Officer. The questions, however, will be asked by the investigative officer.

Reportedly Gupta told the investigative officer Inspector RK Dubey that he was handling EOW operations before being actually posted in the Department. Several questions on phone tapping, interception were asked with copies of interception orders issued by him. Besides, Gupta was asked how he appointed Rekha Nair as system administration.

The EOW officials also quizzed Gupta concerning the PDS Scam, to which he told the complete information about the case can be sought from suspended Superintendent of Police (SP) Rajnesh Singh. Since, it was Rajnesh Singh who had probed the PDS Scam.

Talking to the media, Gupta stated that the noticed served to him was for today, so he had asked the investigative officers to ask whatever they wanted to today only. The EOW officials, however, seconded him, saying DGP Gupta will be called up for inquisition whenever they need.

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Qualification & Pay Scale- As per the CCIM, New Delhi norms.

Interested candidates may send their all documents by registered post or email within 15 days from the date of advertisement.

Secretary

■ Staff Reporter  
RAIPUR, Apr 25

THE World Bank funded Sustainable Partnership for Rooftop Acceleration in Bharat (SUPRABHA) Technical Assistance (TA) Programme was inaugurated on Thursday at Institute of Renewable Energy Technology & Management, Pt Ravishankar Shukla University (PRSU). Chhattisgarh State Power Company has nominated 30 DISCOM officers for the training programme aimed at capacity building and skill development.

Er. Shailendra Kumar Shukla, Chairman, Chhattisgarh State Power Companies said, "Today, we are dependent on thermal based power stations for every energy needs but the same could be fulfilled with natural sources and since sun is infinite amount of energy source which is supplied round the year. Utilization of solar has brought revolution in Energy Field. Like - Low-weight LEDs." By using the bulb, saving 22 to 23000 MW. Referring to Swami Vivekananda, he made his statement clear that as America's soul is business and politics, so is India's religion philosophy and natural preservation and for the protection of this nature, 60 percent of the energy is produced from coal. That is contrary to nature. International Solar Alice, whose head quarters are in India, he said.

It is envisaged online solar power trailing. At present, solar power costs Rs 2.45 - Rs 2.50 P.P. is signing for 25 years, it is possible. CREDA CEO Alok Katiyar said that the Government of India

## e-Rickshaw given to needy youth

RAIPUR, Apr 25

ORGANISING committee of Hazrat Sayeed Qutub Shah Walee Rahmatullah Alaih distributed e-rickshaw to a needy youth to earn livelihood.

Noman Akram Hamid, President of Urs and Tamir Intezamiya Committee informed that on concluding day of Urs



PRSU Vice-Chancellor, professors and officials of Chhattisgarh Power Distribution Company during a group photo session as two-day capacity building training began.

has set an ambitious target for providing uninterrupted power and adequate power for the farmers to all the industrial and commercial establishments by 2022 through their "24C7 Power All Program". The objective of the government is to bring the solar revolution to the sustainability of renewable energy by upto 100 lbs by 2022 M.N.E.E.

Katiyar said Government is exploring new strategies to make full use of the state's solar energy potential.

PRSS Vice Chancellor Prof K L Verma said that in the current scenario, knowing the importance of solar cell according to the requirements of the society, the university is doing the training programme along with the course. So that the awareness of the use of human resources and the use of the products will be established in the society, and in this awareness initiative, we have proposed to produce solar energy at our own house, namely the entire university campus, all the buildings, car parking sets and 70 acres of free land. This campus will depend entirely on solar energy within a year. This area

has been a pioneer in using solar energy.

Coordinator of training programme Dr Sanjay Tiwari said that the objective of this training program is to provide a comprehensive understanding of the design management to the structure of the area, business model, solar PV standards and certificates, risks and risk management strategies. Integration of Rooftop Solar PV Plant with Grid

This training module will essentially provide discam management facilities in order to organize the process of inspection and integration with the grid for rooftop solar systems connected to the grid connected consumer spectrum.

This is expected to simplify the grid integration of the Government of India to achieve its goal of achieving its goal of 40 gigawatts solar rooftop by 2022, as a comprehensive target of 100 gigawatts under the Jawaharlal Nehru National.

In this program, Amit Rane, Founder and Managing Director, Wudmin Energy, Poona, Paul Praneet Mudamale, Managing Director of Energyia,

Consultancy Services, K. Radh Query, Project Officer, Gujarat Energy Research and Management Institute Coach

The workshop also witnessed power point presentations from Amit Rane, solar energy specialist and Master Trainer SUPRABHA Sector Council Green Jobs and Founder and Managing Director Wudwin Energy Ltd. talked on Introduction to National Qualification Framework for Engineering and Overview of Grid Connected Rooftop Solar PV Sector.

Later Paul Praneeth took session on Major Components of Solar PV Rooftop System and Safety Overview and Feasibility and Technical Diligence for Solar PV Plant. The DISCOM Officers then went for site visit at Gandhi Hotel and saw five 300W Rooftop Solar panels and Paul officiated questions and answers hour.

The Chief Guest for Valedictory function is Mohammad Qaiser Abdulhaque Managing Director, Chhattisgarh State Power Distribution Company Limited, Raipur (CG).



Yakub Khan (second from right) with Noman Akram Hamid and other members during distribution of e-rickshaw on concluding day of Urs Pak.

# Doctors HELPLINE GUID

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