Kannur Power Scene

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EDITORIAL

SMS based Complaint Registration System

K S E Board has introduced a statewide SMS-based Complaint Registration System, using which our consumers can lodge their power supply interruption complaints by SMS.The formal inauguration of this service was held at Thiruvanathapuram on September 01, 2011 by Hon'ble Minister for Power , Shri Aryadan Muhammed. The Board has launched this as a pilot project in Electrical Division,Thiruvanathapuram during the month of August 2011.Now ,the service is extended through out Kerala.

K S E Board is using the m-Governance short code platform developed by the Kerala State IT Mission for this service. To register a complaint, the consumer has to send his/her consumer number and section office code by SMS to the number 537252 in the format KSEB <space> Section Code <space> Consumer No.

Section code -4 digits

Consumer No – 1 to 5 digits

Section code is available in the website, www.kseb.in

This SMS will go to the Kerala State IT Mission Server first and then forwarded to the K S E Board Server at the head quarters. On receipt of the SMS, a Docket Number is generated and sent as SMS back to the consumer's mobile along with a message that the complaint will be attended soon. Meanwhile the concerned Section PC will get this message and the Maintenance Sub Engineer will be intimated, who will in turn despatch the team to rectify the fault. On completion of their work, the team will return to their office PC and

close the Docket Number. This process will initiate a SMS for the consumer saying the complaint has been attended to.

The SMS will be charged @ Rs.2 for BSNL subscribers and Rs.3 for others. In case the consumer is not happy with the service, he/she can call the toll free number 155333 for further assistance.

K S E Board hopes to attend to the complaint within three hours and by providing this service ,Board is aiming to empower our consumers & improve the efficiency of human resource by effective recording & tracking of complaints.

Editor

Ingress protection rating

Ingress protection rating

International standard IEC 60529 classifies the level of protection that electrical appliances provide against the intrusion of solid objects or dust, accidental contact, and water. The resulting ingress protection rating is identified by a code that consists of the letters IP followed by two digits and an optional letter. The digits ('characteristic numerals') indicate conformity with the conditions summarized in the tables below. Where there is no protection rating with regard to one of the criteria, the digit is replaced with the letter X.

For example, an electrical socket rated IP22 is protected against insertion of fingers and will not be damaged or become unsafe when exposed to vertically or nearly vertically dripping water. IP22 or IP2X are typical minimum requirements for the design of electrical accessories for in-door use.

One source reports that the Australian national standard AS 1939 adds to the international standard a third optional digit, which indicates protection against mechanical impact damage. It ranges from 0 for no protection to 9 for protection against 20 joule impacts (equivalent to 5 kg dropped from 40 cm).

First digit

The first digit indicates the level of protection that the enclosure provides against access to hazardous parts

(e.g., electrical conductors, moving parts) and the ingress of solid foreign objects.

Level	Object size protected against	Effective against
0	–	no protection against contact and ingress of objects
1	>50 mm	any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part
2	>12.5 mm	fingers or similar objects
3	>2.5 mm	tools, thick wires, etc.
4	>1 mm	most wires, screws, etc.
5	dust protected	ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact
6	dust tight	no ingress of dust; complete protection against contact

Second digit: Protection of the equipment inside the enclosure against harmful ingress of water.

Level	Protected against	Details
0	not protected	–
1	dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.
3	spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.
4	splashing water	Water splashing against the enclosure from any direction shall have no harmful effect.
5	water jets	Water projected by a nozzle against enclosure from any direction shall have no harmful effects.
6	heavy seas	Water from heavy seas or projected in powerful jets shall not enter the enclosure in harmful quantities.
7	the effects of immersion	Ingress of water in harmful quantity shall not be possible when the enclosureis immersed in water under defined conditions of pressure and time.
8	submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. NOTE: Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that produces no harmful effects.

Additional letters

The standard defines additional letters that can be appended to classify only the level of protection

Level	
A	back of hand
B	finger
C	Tool
D	wire

Further letters can be appended to provide additional information related to the protection of the device:

Letter	
H	high voltage device
M	device moving during water test
S	device standing still during water test
W	weather conditions

Handy reference table for IP ratings are given in page 6 & 7

Welcome to our fold

1. Er Sunil Kumar P.V, Assistant Executive Engineer , posted at Electrical Division, Kannur. Welcome Er Sunil Kumar P.V to our unit.
2. Er P.K Basheer, Assistant Executive Engineer,posted at Electrical Division, Thalassery. Welcome Er P.K Basheer to our unit.

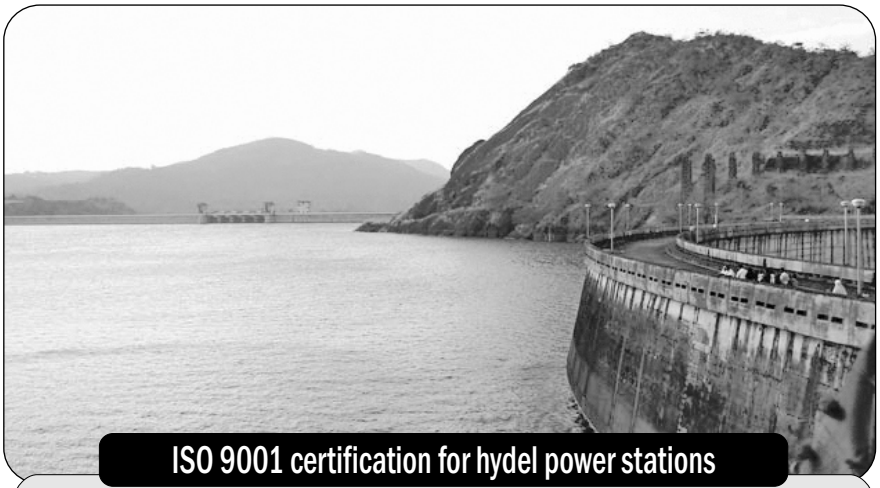
Engineers' Association ,Kannur Unit also welcomes the following newly appointed Assistant Engineers to our Association:

1. Er Thomas Antony,Assistant Engineer,220 kV Substation,Kanhirode
2. Er Jithesh, Assistant Engineer,110 kV Substation,Iritty
3. Er Vineeth, Assistant Engineer,110k V Substation,Ezhimala
4. Er Hariprasad, Assistant Engineer,110 kV Substation,Cherupuzha
5. Er Anoop, Assistant Engineer,110 kV Substation,Payyannur
6. Er Roopesh, Assistant Engineer,110 kV Substation,Payyannur

Congratulations to all and welcome to our fold.

Fuel surcharge to all categories of consumers including Licensees with effect from 01.10.2011

K S E Board has ordered to comply the order of the KSERC to levy fuel surcharge @ Rs 0.25 per unit in addition to the existing energy charges from all consumers. However, domestic consumers having consumption not more than 120 units per month and domestic consumers having consumption not more than 20 units per month and connected load of less than or equal to 500W is exempted from payment of fuel surcharge. The surcharge will be effective for the consumption from October 1, 2011. The rate of fuel surcharge and the amount of surcharge will be shown separately in the bills issued to consumers. Further, for domestic consumers with monthly consumption up to 120 units per month, the fuel surcharge and the amount as subsidy receivable from Government will be shown separately in the bills issued to the consumers.



ISO 9001 certification for hydel power stations

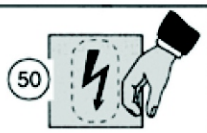
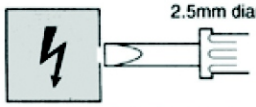
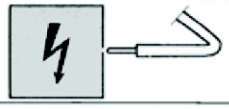
As part of the efforts to ensure more transparency and operational efficiency in hydel power houses, K S E Board is planning to obtain ISO 9001 certification for three major hydel power stations in the state. The power stations are Moolamattom, Moozhiyar and lower Periyar.

The K S E Board has engaged Kerala State Productivity Council for conducting a study on the basic steps to be taken by the board for obtaining the ISO certificate.A national level consultancy will be set up to undertake the task of completing the formalities for obtaining the certificate.

The ISO 9001 certification will help the Board to step up security arrangements at major power stations and would also help to enhance the productivity and establish better co-ordination among the board staff.

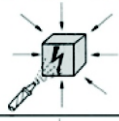
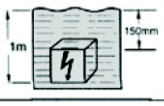
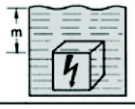
Handy reference table for IP ratings

First characteristic numeral

Protection against solid foreign objects			Degree of protection for people against access to hazardous parts with:	
I.P.	Example	TESTS		
0		No protection	Non-protected	
1		Full penetration of 50mm diameter of sphere not allowed. Contact with hazardous parts not permitted.	Back of hand	
2		Full penetration of 12.5mm diameter of sphere not allowed. The jointed test finger shall have adequate clearance from hazardous parts.	Finger	
3		The access probe of 2.5mm diameter shall not penetrate.	Tool	
4		The access probe of 1mm diameter shall not penetrate.	Wire	
5		Limited ingress of dust permitted (no harmful deposit).	Dust protected	WIRE
6		No ingress of dust.	Dust tight	

Handy reference table for IP ratings

Second characteristic numeral

Protection against harmful ingress of water			Degree of protection from water
I.P.	Example	TESTS	
0		No protection	**Non-protected**
1		Protected against vertically falling drops of water	**Vertically dripping**
2		Protected against vertically falling drops of water with enclosure tilted 15° from the vertical.	**Dripping up to 15° from the vertical**
3		Protected against sprays to 60° from the vertical.	**Limited spraying**
4		Protected against water splashed from all directions – limited ingress permitted	**Splashing from all directions**
5		Protected against low pressure jets of water from all directions – limited ingress permitted	**Hosing jets from all directions**
6		Protected against strong jets of water eg for use on ship decks – limited ingress permitted	**Strong hosing jets from all directions**
7		Protected against the effects of immersion between 150mm and 1m	**Temporary immersion**
8		Protected against continuous submersion at a specified depth.	**Continuous immersion**

Unit Meeting

Next Unit Meeting is on 12.10.2011 at 4.30 pm at Engineers' House. Also, a technical class on ***' Broadband Access Technology'*** will be conducted after the meeting. All members are requested to attend.

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To

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BOOK - POST

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