



सूचना
का अधिकार

पावर ग्रिड कोर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Limited
सूचना का अधिकार अभिनियम 2005 के अंतर्गत केन्द्रीय लोक सूचना अधिकारी
Central Public Information Officer under the RTI Act, 2005
केन्द्रीय कार्यालय, 'सौदामिनी', प्लॉट नं.2, सेक्टर-29, गुडगांव, हरियाणा-122007
Corporate Centre, 'Saudamini', Plot No. 2, Sector-29, Gurgaon, Haryana-122007



पावरग्रिड

PGCIL/R/2019/50030

Dated : 8 February, 2019

Kishor bhole,
Flat no 3 Krishna sankul Apartment ,
Behind ashoka mithai junction ashoka marg ,
Pin 422011,

Sub: Information under Right to Information Act, 2005.

Sir/Madam,

This has reference to your RTI request dated 15 January, 2019 for providing information under RTI Act, 2005.

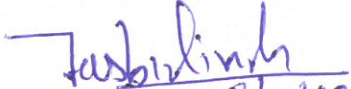
The desired information is attached at Annexure-I.

First Appeal, if any, against the reply of CPIO may be made to the first appellate Authority within 30 days of the receipt of the reply of CPIO. Details of Appellate Authority at Corporate Centre, Gurgaon, under RTI Act, 2005 is as below:

Shri Sanjeev Singh,
Executive Director (CMG) & Appellate Authority
Corporate Centre, Power Grid Corporation of India Limited
"Saudamini", Plot No. 2, Sector-29, Gurgaon – 122007, Haryana.
Email ID: sanjeev@powergridindia.com
Phone No. 0124-2571962

Thanking you,

भवदीय,


(जसबीर सिंह) 8/2/19

वरिष्ठ महाप्रबंधक (के. आ.) एवं के.लो.सू.अधिकारी

Email ID: cpio.cc@powergrid.co.in

POWERGRID CORPORATION OF INDIA LIMITED
OPERATION SERVICES DEPARTMENT

SAFETY AUDIT FOR SUB STATION UNDER O&M

Name of the Substation: 400kV Bareilly Date: 17-01-2018

S.No.	Activity	Remarks
1. (a)	Display of Single line Diagram and layout Plan of S/stn in Control Room	: To be displayed
(b)	Identification of Bay Equipment & Phase Indication at Substation	
(i)	Bay indication	: Yes
(ii)	Eqpt. Identification & numbering	: Yes
(iii)	Phase indications R, Y & B	: Yes
(iv)	MOM Box for Isolator, Earth Switches painted green. (150 mm dia)	: Yes
(c)	Safety awareness (measures taken for improvement of safety):	
(i)	Display of safety slogans at prominent locations	: Yes
(ii)	Display of caution Boards	: Yes
(iii)	Display of prohibited area	: To be done.
(iv)	Display of Danger Boards (LT/HT/EHT)	: Yes
(d)	No. of safety related Training Programs /workshops organized in the substation /group in a year	: 01 NO.
2 (a)	Availability of First Aid Box with full recommended contents and expiry date	: 02 (Control room store)
(b)	Training of personnel in First Aid	: Yes
(c)	Display of First Aid Charts at proper places	: Yes
3.	Name of the Safety Steward /Incharge : (Number of safety audits conducted by the safety steward).	Saurabh Kumar, Dy. mgr. (To be done)
4.	Availability of Alarm on Control Room Building	: Yes
a)	Check its operations as per norms	: Yes
b)	Check for any mock drill conducted during emergencies and record kept	: Yes

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17/01/2018

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17/01/18
S. K. Singh

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5. Availability and use of Personal Protective Equipment

To be maintained as per norms.

Description	Available Qty.	Present Condition	Date of Last Testing	Remarks
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Industrial
Safety Helmet
 (IS:2925-1975)
Zero Power Plain
Glasses (IS:2553-1977)
Welders Equip. for
Eye & face protections
 (IS:1179-1967)
Rubberized Apron
 (IS:4501-1967)
Safety Belt
 (International std.)
 (EN:361)
Safety Belts with thigh strap
 Indian std. (if available)
 (IS 3521 – 1983)
Mobile Fall Arrestor
 (ascending / descending from tower)
 EN 353-2, 354, 355, 362.
Self Contained
Breathing Apparatus
 Baloon type (IS:1910-1961)
Electric Shock
Resistant Hand Gloves
 (IS:4770-1968)
Face Shield
 (IS:8521-1977)
Acid Resistant
Hand Gloves for
Battery Room
Leather Hand Gloves
For welders/Cutters and
Griders
 (IS:6994-1973-part-1)
Cotton Hand Gloves
Gum Boots
Dust Mask
Any Other :

(List enclosed)

- Note :
1. While purchasing test certificate may be obtained from supplier.
 2. Visual inspection may be made during safety audit of PPE.
 3. Breathing Apparatus should be got tested from laboratory.



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17/11/18



6. **Effective Earthing**

- a. Earth mat resistant (max. 1 ohm) : 0.12Ω on 21.12.2017
- b. Equipment Earthing (visual inspection) : *Yes*
Check For proper connection & rusting etc.
at Tr. / Reactor / CVT / LA etc.
- c. Check for Door Earthing of all equipment's MB's: *OK*
- d. Condition of earth pit (Visual inspection). : *OK.*

7. **Fire Fighting Equipments :**

(i) **Fire extinguishers Check register is maintained for its periodic maintenance & placement of records).** : *OK.*

(ii) **Detail of fire Extinguisher**

Location	Type & Capacity	Qty.	Condition	Due Date For refill	Actual Date of refill
a) Control Room	<i>List attached.</i>				
b) Computer Room					
c) Main. Room &					
d) MCC Room					
e) Cable Vault Room					
f) DG Set Room					
g) AC Plant Room					
h) FP System (Pump Houses)					
i) Battery Room					
j) Stores					
k) At other places					
l) Fire extinguishers are installed as per norms or not.	<i>To be placed in FSC kiosk.</i>				

Note : Visual periodic checking of portable fire extinguishers to be done once in a months, Servicing once in two months and refilling to be done periodical as specified by the supplier and record maintained in a register.

(iii) Fire Protection System : Yes, checked for 3 locations.
Smoke Detection System
(Physical checking of two zone)
(If not provided action to be initiated)

(iv) Hydrant System : 10 Nos.
(Check operation of hydrant system)

- a) With 7.5M Hose NIL :
- b) With 15M Hose) 20 Nos. OK.
- c) Condition of Hydrant female coupling (lugs are provided or not & condition of washer) : OK
- d) Condition of hose pipes : OK
(Nos. of defective & healthy)
- e) Condition of hose pipe boxes & Hose pipes are available in Hose Pipe boxes or not. : Yes (available)

(v) Emulsifier System :

- a) Whether system is in auto/manual : OK
- b) Operation : OK
(Check record of operation of all nozzles checked during annual maint.)
- c) Pressure monitoring (air/water) : OK
- d) Pressure gauges mounted on deluge valve & Hydrant pumps are working properly or not : OK
- e) Condition of electrical panel for Deluge valve : OK

(vi) Availability and placement of fire buckets. : 02, Near Reactors to be placed.

8. Permit To Work and Authorization :

- i) Whether PTW format being used & issued by Authorized Person : Yes
- ii) Whether Safety Norms are being Followed and ensured while issuing Permit/execution of work. : Yes
- iii) SFT (Sanction For Test) Permit system is followed or not. : Yes
- a) Issue of SFT with details of full Isolation and earthing etc if required. :

b. Whether operating personnel are following the above as at iii(a) : Yes.



9. Whether visitor's / entry passes to Visitors / workers issued who are visiting / working in sub-station : Yes
10. i. Whether safety measures have been adopted by contractors. : Yes
 ii. Fencing between charged and construction area or separation from charged area. : Yes

11. Ventilation (Exhaust fan availability) :

- i) Battery Room : Yes
 ii) Cable Vault's room : Yes
 iii) F/F system pump house : Yes
 iv) Stores : Yes

12. House Keeping of work places:

- i) Control Room : OK
 ii) Battery Room : OK
 (Wash basin provided or not)
 iii) LT S/S area : OK
 iv) F/F Building : OK
 v) DG Building : OK
 (any leakage of oils and preventive action taken)
 vi) A/C Building : OK
 vii) Out door switchyard
 a) Drainage facility : OK
 1) De-Silting : OK
 2) De-watering Pump :
 b) Grass Cutting & Weed control activities. :
 1. Stores. : To be improve
 2. Outdoor area weed cutting : OK
 c) Indoor : OK
 1. Proper storage of Eqpt. / items including free access : OK
 2. Other office Buildings :
 3. Township : OK

13. Availability of Emergency fire exit : Yes

14. Availability of suitable ladder/platform for climbing / working on LA, CT, CVT, CB, ISOLATOR etc. : Yes.

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15. a. Emergency Action Plan in case of Fire Accident / Flood available and displayed in the S/stn. : To be displaced.
- b. How many mock drills for general / Sub-station Fire carried out last year. :
16. **Illumination**
- a. Switchyard Area : OK
- b. Control Room : OK
(Whether emergency lights (DC, provided / kept in control room. Battery, LT, F/F/ DG, AC room etc.
- c. Colony / Office area. OK
17. **Availability of T&P at S/stn store and line store**
- i. Frequency of checking the healthiness of T&P at S/stn store and line store as per annexure-A attached) : OK
- ii. Whether all the lifting tools and tackles have been tested for safe working load by a competent person as per section 29 of the Factories Act. : Lasting Testing in 2015
- iii. Whether all the T&P are properly stored / placed in the store or not. : OK
- iv. Unhealthy T&P is segregated and action taken for disposal: NA
18. **Material Handling** :
- i. Facilities available for loading, / unloading and shifting of materials. Yes
- ii. Healthiness of Mobile / EOT crane : OK, certificate to be taken.
- Note: Material Handling equipment to be periodically inspected by suppliers services engineer and certified for the healthiness.**
19. **Accidents.**
- a. Number of Fatal / Non Fatal accidents during last year : NIL
- b. Total number of Fatal / Non Fatal accidents during Current year (upto ...17.01.2018.....) : NIL
- c. Implementation of recommendations of the Accident Enquiry Committee reports. : Yes.
(Being followed or not for corrective & preventive action)

Shankar Singh

17/1/18

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20. **Penalty.**
Whether any penalty imposed for non Compliance of safety norms by contractor Employee / Departmental employee during last year. : NIL
21. How many Number of operations on equipment like Isolator /Earth switch / CB have occurred due to Human error and their preventive measures. : NIL
22. Ensure that the instruction has been conveyed while operating CB / New Equip. under testing no personal should be present near that particular equipment in the S/Y. : followed as per Norms
23. Ensure that the defective / suspected equipment while in service, has been electrically isolated before its visual inspection / testing. : Yes
24. Ensure that Test Taps (after Testing) of Transformer /Reactors, CTs and HF points of CVTs have been properly earthed before charging the equipments. : Yes
25. Any new concept / procedure being adopted for safety. : As per Safety Norms.

26. **GENERAL POINTS.**

- a) Marshling Box. : OK
 i) Condition of Gaskets : OK
 ii) Condition of lighting arrangement : OK
 iii) Painting & cleaning : OK
- b) EHU / Pumps / Compressors etc. : OK.
 Condition of shaft cover / Fencing

26. **Others.**

1. Jockey-1 performance and Auto operation to be rectified.
2. Emergency stop of DG set is not working.
3. Water Level indicator (Pump House) is not working.
4. Settings for Jockey, Motor pump & Diesel pump to be displayed.
5. Earth Pit chamber to be constructed for 4/2 bay CVTs & LAs.
6. Broken Earth pit cover to be replaced.
7. "NO Entry without shoe" to be displayed in S/S.

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S/S (S/S)

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17/01/18
(Dt. Manager S/S)



POWER GRID CORPORATION OF INDIA LTD.,
(CORPORATE OPERATION SERVICES)
SITE SAFETY INSPECTION / AUDIT CHECK LIST

TOWER ERECTION

DATE OF INSPECTION: 30/12/2017 NAME OF THE LINE: 400KV Singrauli - Alu - Arad T/L

LOCATION NO: 8/1(A+3) CLASSIFICATION OF SOIL & TYPE OF TOWER: (A+3) NDS

NAME OF THE AGENCY: M/s FEEDERS FEELtd. (M/S Nav Durga)

SITE ENGINEER / SUPERVISOR OF THE AGENCY: NOT PRESENT

SAFETY OFFICER OF THE AGENCY: NOT DEPLOYED BY M/S FEEL

S.NO:	CHECK LIST	YES / NO	REMARKS, IF ANY
1	Check List to be verified by the Agency's Site supervisor / Gang leader is available at Site and updated.	NO	Total strength of main power Gang leader - sh. Umesh Kumar. Total 962545070
2	Safe Work Procedures / Instructions in the language understood by the workers available with Site supervisor / Gang leader and workers are aware of the safe work procedures.	YES	
3	Pep talk on safety issues (Importance of safety, inspection of T&P and PPEs, proper use of PPEs, safe tower erection practices, safe shut down practices / safe material handling / house keeping , etc.) to the workers being done by the Safety Stewards / Supervisor / Engineer / Safety Officer of the Agency.	NOT DONE	
4	Adequate warning / protection to public / children moving nearby ensured (RED FLAGS / CAUTION TAPE / ROPE / BOARDS).	NOT DONE	
5	Appropriate safety messages / warnings are displayed at site to caution the workers.	NOT DONE	
6	Back filling of soil completed before taking up tower erection.	OK	
7	All the workers are provided with good quality SAFETY HELMETS confirming to BIS Standard IS:2925.	NO	Brand: NOT PROVIDED BY M/S FEEL
8	The workers engaged in Tower Erection work at height are provided with good quality FULL BODY DOUBLE LANYARD SAFETY BELTS confirming to BIS Standard IS: 3521 / EN 361.	OSMS	Brand: KARMA
9	Other PPEs provided to the workers: SAFETY SHOES / COTTON HAND GLOVES for material handling / ELECTRICAL SAFETY GLOVES for S/D works	NO	NOT PROVIDED BY M/S FEEL
10	The workers engaged in Tower Erection work at height are provided with FALL PROTECTION SYSTEMS like Rope Grab Mobile Fall Arrestor for ascending / descending the Tower / Retractable Fall Arrestor (for vertical movement) / Horizontal Life Line Rope for moving from one member to another member (Horizontal movement within the Tower).	NO	FALL ARRESTOR NOT PROVIDED BY M/S FEEL
11	The fitters working on the tower have been trained on safety for work at height before deployment for tower erection works and Training Records maintained.		Gang not complete. Only 02 fitters available
12	The workers engaged in Tower Erection work at height are anchoring the LIFE LINE Rope / Lanyard of the Safety Belts to rigid support.		Bottom section up

Use of Tractor in place of winch etc. instructions given to follow use winch etc. Contd..2..


30/12/2017

Umesh Kumar 30/12/2017

3721 42CT
30/12/2017

13	(a) First aid box with listed items as per BOCW Act, 1996 available.	NO	
	(b) Number of First Aid Trained persons and their names.	NO	
	(c) First Aid Register is available at site.		
	(d) Nearby medical facilities for use during exigencies identified (Location / Phone No.).	NO	
14	Shutdown of state EB Power Lines, wherever required, are taken, and no short cut methods used and chances taken.	NOT APPLICABLE FOR THIS LOCATION 8/11	
15	All tie members / diagonal members and all bolts are fixed as the tower is erected progressively upwards to avoid uneven transmission of loads.		Instruction have been given for same
16	All the nuts and bolts of STUB have been properly tightened.		— do —
17	All step bolts have been properly tightned.		— do —
18	Adequate guying arrangement provided at different levels to ensure proper stability of the tower being erected progressively.		— do —
19	Atleast one vehicle (four wheeler) is available for use in case of emergencies.	NO	NOT PROVIDED BY M/S FEEL
20	(a) Condition of derricks, pulleys and other load bearing T & Ps are found to be sound and free from any defect.		02 pulleys found in jammed condition derrick - see outlet 5
	(b) Whether all lifting T&P have been tested for safe working load and valid test certificates available and checked?	NOT TESTED	
21	The polypropylene / wire ropes are of adequate strength & free from any damage.	OK	
	The damaged / discarded ropes and steel wires are removed and not kept along with the other usable T&P, to prevent their use.		Instruction have been given for removal of 02 used bundle of rope
22	The pulleys are of adequate strength / proper size (diameter).	OK (V.V. Vally)	
	In open type pulleys, the locking arrangement and the safety pin are found to be healthy and fool proof.	OK	
23	The derricks are provided with adequate guys and are properly tyed to the tower main leg to prevent from slipping.		Presently not in use with tower leg
24	In case erection of tower is done with central derrick / Gin pole, adequate precautions are taken for guying / anchoring arrangement		NOT USED
25	Adequate no. of fitters / ground helpers are deployed for the Tower Erection work .	NO	Total strength 550
26	Whether the persons working in the ground are sufficiently away from the tower when erection is in progress?	OK	
27	Whether adequate precautions are taken when working near Road / Rail / River / adjoining Power Line?		NOT APPLICABLE FOR THE LOC 8/11


 SIGNATURE / NAME / DESIGNATION
 OF POWERGRID REPRESENTATIVE


 SIGNATURE / NAME / DESIGNATION
 OF AGENCY'S REPRESENTATIVE 30/12/20

Copy To:

- (1) Regional In-charge / POWERGRID / _____
- (2) Projects In-charge (Region) / POWERGRID / _____
- (3) Site Incharge / POWERGRID / copy given
- (4) Project Incharge / AGENCY / copy given



POWER GRID CORPORATION OF INDIA LTD.,
(CORPORATE OPERATION SERVICES)

SITE SAFETY INSPECTION / AUDIT CHECK LISTEXCAVATION & FOUNDATION

DATE OF INSPECTION: 05/10/2018

NAME OF THE LINE: Extension of Bay 400KV Barhampore - Baleswara

LOCATION NO: Equipment foundation CLASSIFICATION OF SOIL & TYPE OF TOWER:

NAME OF THE AGENCY: M/s Associated Power Structures.

SITE ENGINEER / SUPERVISOR OF THE AGENCY: Mr Navneet Kumar (Sr Engg), Durgesh Kumar (Sr Engg)
Mr Kamhye Singh

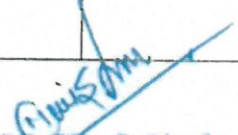
SAFETY OFFICER OF THE AGENCY:

S.NO:	CHECK LIST	YES / NO	REMARKS, IF ANY
1	Check List to be verified by the Agency's Site supervisor / Gang leader is available at Site and updated.	Yes	
2	Safe Work Procedures / Instructions in the language understood by the workers available with Site supervisor / Gang leader and workers are aware of the safe work procedures.	Yes	
3	Pep talk on safety issues to the workers being done by the Safety Stewards / Supervisor / Engineer / Safety Officer of the Agency.	Yes	Pep talk should conduct minimum once or every month.
4	Appropriate safety messages / warnings are displayed at site to caution the workers	Yes	
5	Adequate warning / protection to public / children moving nearby ensured (RED FLAGS / CAUTION TAPE / ROPE / BOARDS).	Yes	
6	Sufficient Angle of Repose / slope provided to prevent collapse of soil at vulnerable locations.	Yes	
7	Adequate shoring and shuttering provided in colapsible soil conditions.	Yes	
8	(a) Drilling and Blasting, if any, carried out with adequate precautions. (b) Whether the blaster is a valid license holder?	N/A	
9	Dewatering of the pits is being done, wherever required.	Yes	
10	Clear edges to prevent fall of objects inside the pit – the excavated earth, stones and tools dumped atleast half of the depth of the pit away from the pit edges.	Yes	
11	Machines like concrete mixer, vibrator, etc, placed away atleast half of the depth of the pit from the pit to avoid collapse of the pit due to vibrations produced by these machines.	Yes	

Contd..2..

12	The steel plate (chute) used for pouring the concrete into the pit properly anchored to prevent the same from falling into the pit, endangering the persons inside the pit.	Yes	
13	Jacks used for supporting the template are properly positioned / anchored to avoid sliding down of the template from the jacks and endangering the workers .	N/A	
14	All ladders used are of sound construction, appropriate height and free from any defect.	Yes	
15	All the workers are provided with good quality SAFETY HELMETS confirming to BIS Standard IS:2925.	Yes	
16	All the workers engaged in steel work are provided with LEATHER SAFETY GLOVES.	NO	Standard provided To be provided .
17	The workers engaged in concreting work inside the pit are provided with GUMBOOTS.		
18	The workers engaged in handling cement are provided with appropriate DUST MASKS.	Yes	More dust masks to be provided .
19	Appropriate SAFETY BELT / fall protection provided to workers working on form box to pour concrete into the form box / ramming in form box.	-	
20	(a) First aid box with listed items as per BOCW Act, 1996 available. (b) Number of First Aid Trained persons and their names. (c) First Aid Register is available at site. (d) Nearby medical facilities for use during exigencies identified (Location / Phone No.)	Yes	
21	Atleast one vehicle (four wheeler) is available for use in case of emergencies.	Yes	


SIGNATURE / NAME / DESIGNATION
OF POWERGRID REPRESENTATIVE


SIGNATURE / NAME / DESIGNATION
OF AGENCY'S REPRESENTATIVE
Associated Power Structure Pvt. Ltd.
400kv S/s Extn, Berhampore

Copy To:

- (5) Regional In-charge / POWERGRID / _____
- (6) Projects In-charge (Region) / POWERGRID / _____
- (7) Site Incharge / POWERGRID / _____
- (8) Project In-charge / AGENCY / _____