



North Eastern Electric Power Corporation Limited

(A Government of India Enterprise)

An ISO 9001, 14001 & OHSAS 18001 Certified Company

Miniratna Category-I Company

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MISSION
To harness the vast hydro & thermal power potential
[more >>](#)

CMD
Shri P C Pankaj

CONTRIBUTIONS
NEEPCO operates the largest hydro and thermal power plant in N.E. Region. [more >>](#)

PROJECTS
Projects commissioned by NEEPCO and presently under operation
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Project: 33kV Substation Refurbishment

Customer: NEEPCO

Site : Ranga Hydro Electric Plant, P.O. Ranga Project, Arunachal Pradesh

Project Site

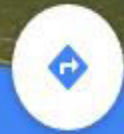
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Ranganadi Hydro Electric Project HEP

1 review

Tourist Attraction



Directions



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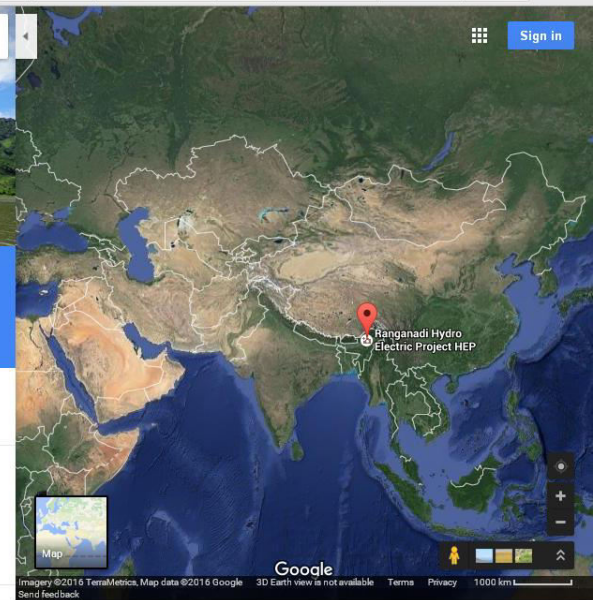


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Project Scope Site Assessment & MOM

MOM held between NEEPCO: RHEP AND Service Engineer of M/S S&S authorized Original manufacturer of 33KV Breaker & Panels, installed at DPH, 43Km, on 03.02.2016 for rectification work to be carried out at 33KV & 11 KV both switchgear panels of both indoor & outdoor switchyard including DG Sets.

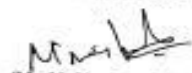
Service Engineer/representative from the above parties visited at DPH site on 03.02.2016. After physical inspection and discussion with site Engineers the following points were drawn accordingly:

During the joint inspection carried out on 03.02.2016, it is observed that Out door Circuit Breaker & also most of the protection relays, metering, indicating and annunciation system are not functioning properly and need immediate attention.

- Circuit Breaker 38Kv SF6 S&S make giving problem during operation, they have suggested for procuring & installing 1 (one) new Vacuum Circuit Breaker, S&S Make for satisfaction service. In this regards, NEEPCO has ask to provide offer, suitable for the existing one & also requested to repair the existing if possible which shall be kept standby.
- Existing Isolators of 33KV Switchyard are giving problems during operation (not closing properly). As such, it is found to be needs to replace of all Isolators with new one & NEEPCO requested to send offer for motorised as well as manual operation of the same.
- New Potential Transformers (PT) are required to be purchased and installed since these PT (33KV/110V) of Model 1992 got defective and kept under disconnection from the circuit last few years, which are urgently required for proper functioning.
- During the joint inspection, it is also observed to install 3(Three) nos. of New Potential transformers are required to be procured and installed in 11KV Indoor Bus of Diesel Power House for protection & metering system(1-nos for Outgoing Feeders and 2-Nos for Incomers) suitable for 11KV System.
- Control Panels of DG Sets and 11KV Feeder Panels are proposed to be replaced by new one, replacing the analogue meters with Digital. Besides, all the relays shall be replaced and inbuilt in the Control Panels. In this regards NEEPCO has requested to make arrangement for **Offering of Inbuilt Control Panels** with all requisite system from of M/S S&S authorized Original manufacturer of 33KV Breaker & Panels.
- NEEPCO requested to provide all 33KV system Control unit wiring and Indication inbuilt in one panel (Breaker & Isolator) & also requested to keep provision to kept inside in the building.

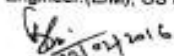
NEEPCO have requested the representatives to submit a scheme detail along with report showing both technical and commercial details of the same.


(Mr. Mohan Lal Kumhar)
Sr. Manager(E/M) US & W
NEEPCO, RHEP


(Mr. M. Manikandakumaran)
Engineer-Service,
S&S Power Switchgear Limited,
Maraimalai Nagar, Tamil Nadu


(Mr. J. Sundararajan)
Senior Technician
S&S Power Switchgear Limited,
Maraimalai Nagar, Tamil Nadu


(Mr. A.N Tallar),
Engineer.(E/M), US & W


(Mr. T. Tani),
A.E.(E), US & W

Key Challenges

- Remote Site
- Old Installation
- Close co-ordination among S&S, Vingiri & NEEPCO
- Technical Requirement Agreement on performance improvement targeted before detailed engineering
- Schedule of execution

Key Contacts

Site Contact :

NEEPCO

Mr.Mohan lal kumhar,
Sr. Manager(E/M)US &W,
Mob.No:09436225093/08730946725

Vingiri Powertech Pvt Ltd

Mr.K.A.Singh ,
Mob.No:09433229494.

S&S Power Switchgear Ltd

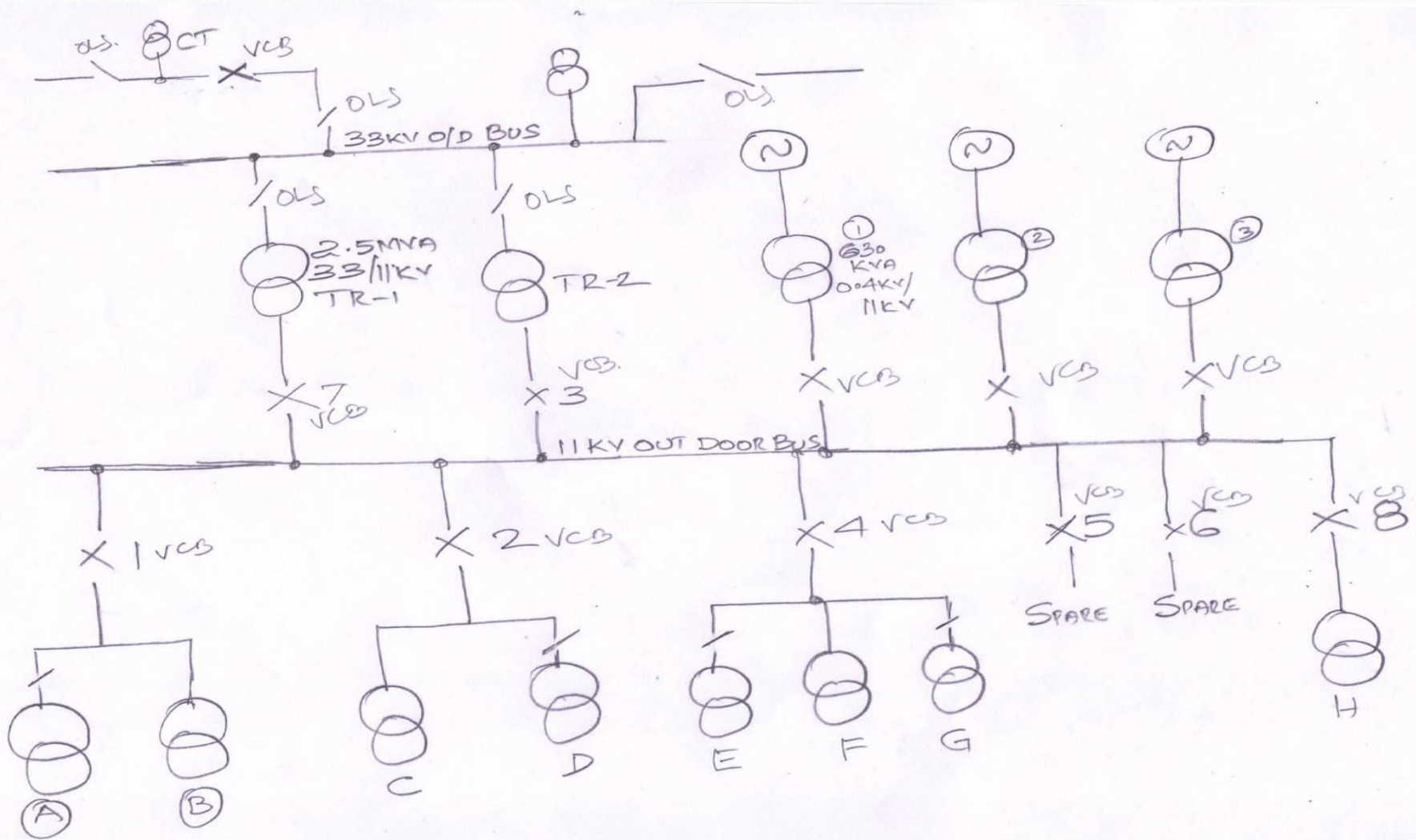
Mr.Manikanda kumaran.
Mob.No.08608330332



Project: Engineering, Manufacturing & Supply Portion Proposal Value

Engineering Charge : Field Visit and Scoping	0.5L
: Detailed Engineering	1.0L
: As Build Drawing Charge	0.5 L
: Site Supervision of Testing	1.0 L
: Project Management	0.5L
Supply	32.7 L
Total proposal	36.2 L

NEEPCO HYDRO POWERSTATION – SLD



OPPORTUNITY SIZE (Qty)

Sl.No	DESCRIPTION	Qty
1	33kV, 1250A, 25kA/3SEC PCVCB with Local Control Panels & PT, CT'S	1
2	33 kV, 1250A DISCONNECTOR (MGB Type)	5
3	Remote Control panels for Breaker and Isolator (with single panels)	1
4	Suitable control unit panels for 11kV SF6 (24V DC) with PT 'S	11

REPLACEMENT OF EXISTING SF6 WITH NEW OFVp36

OLD SF6

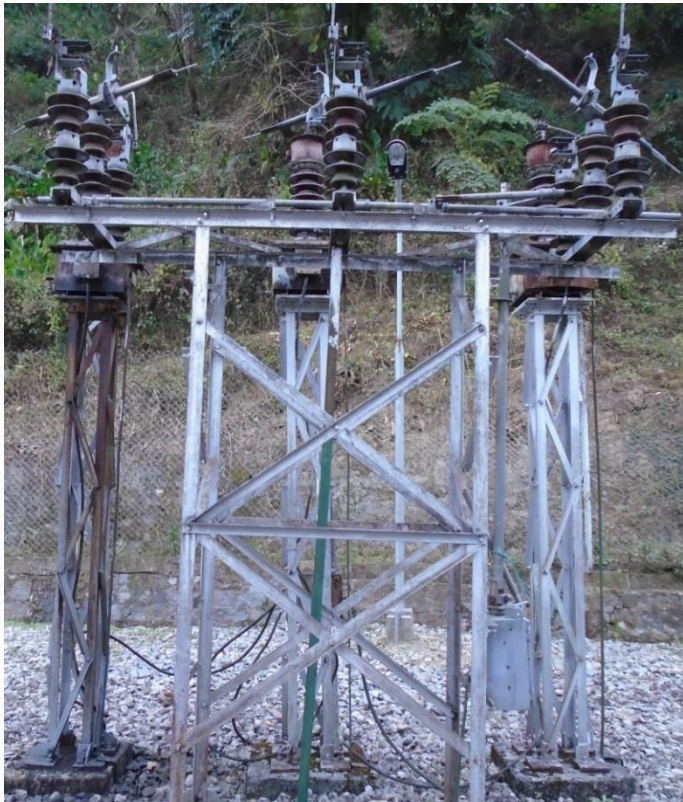


S&S OFVp36



REPLACEMENT OF EXISTING 33kV DISCONNECTOR WITH NEW 33kV DISCONNECTOR

OLD DISCONNECTOR



S&S DISCONNECTOR

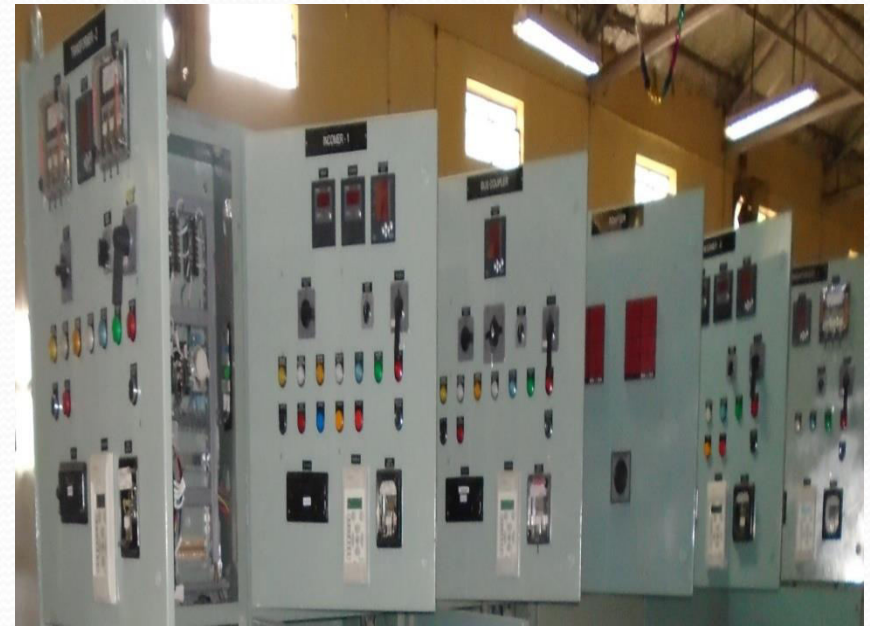


REPLACEMENT OF EXISTING INDOOR CONTROL UNIT PANEL WITH NEW INDOOR CONTROL UNIT PANELS

OLD INDOOR CONTROL UNIT PANELS



S&S INDOOR CONTROL UNIT PANELS

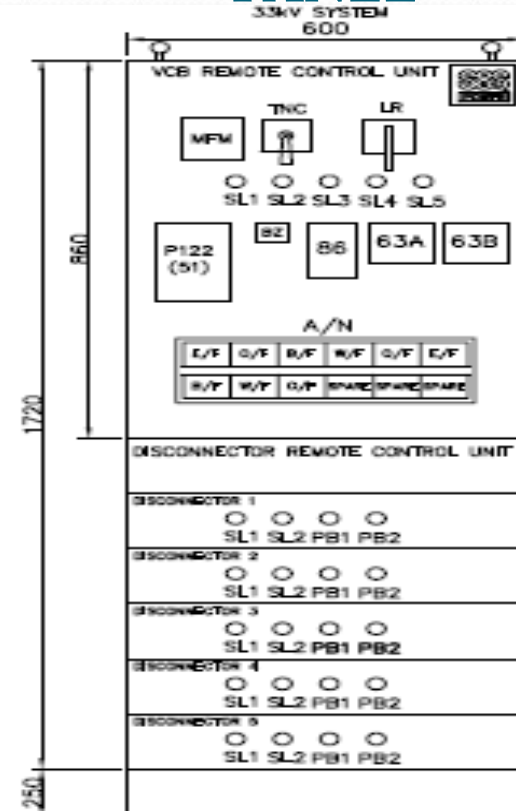


INTEGRATED REMOTE CONTROL CUBICLE FOR 33kV VCB DISCONNECTOR

OLD REMOTE PANEL



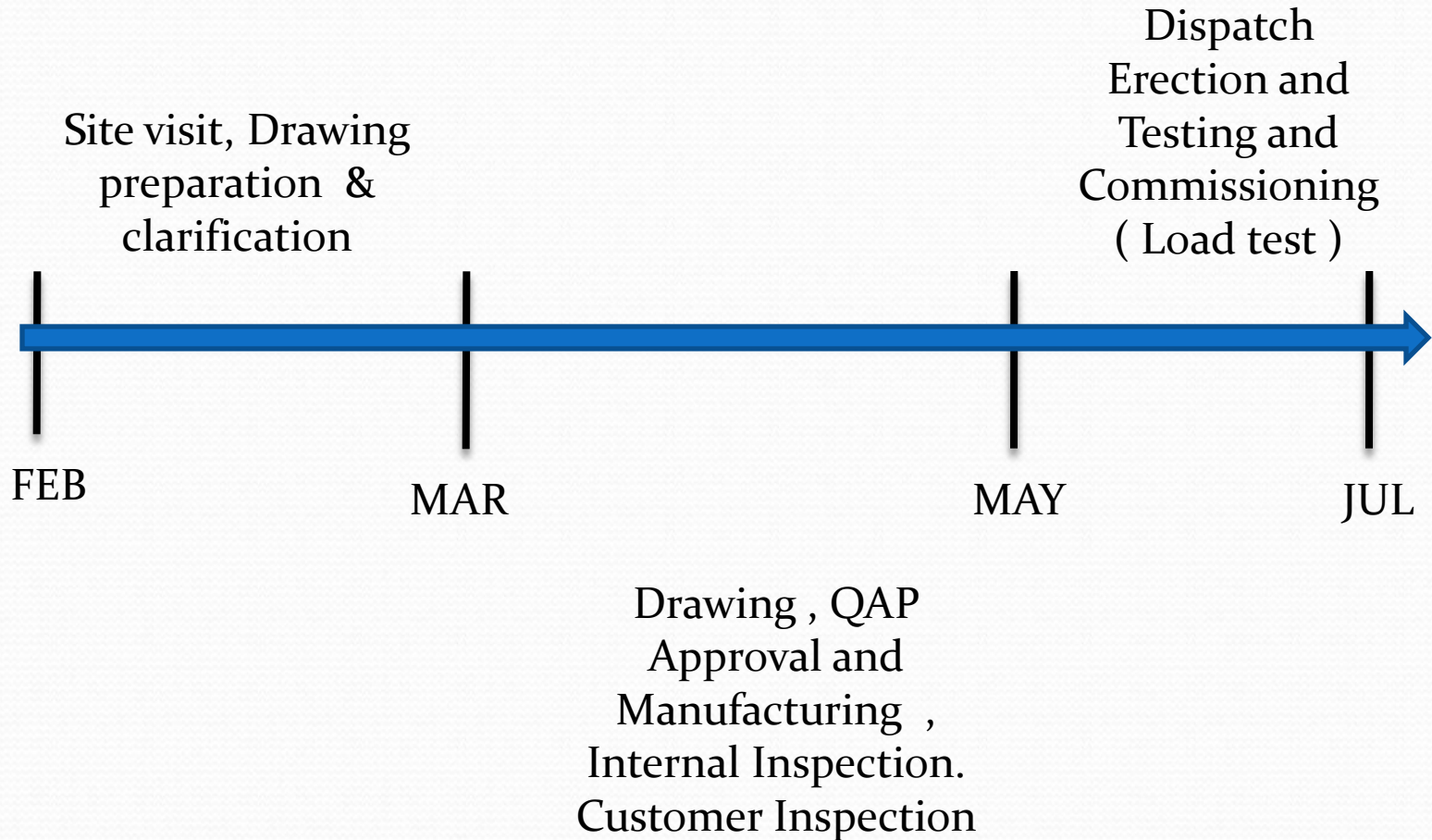
NEW INTEGRATED REMOTE PANEL



NEEPCO BOM

PLEASE REFER- SECTION - I

PLANNING SCHEDULE (NEEPCO)



DIVISION OF RESPONSIBILITY

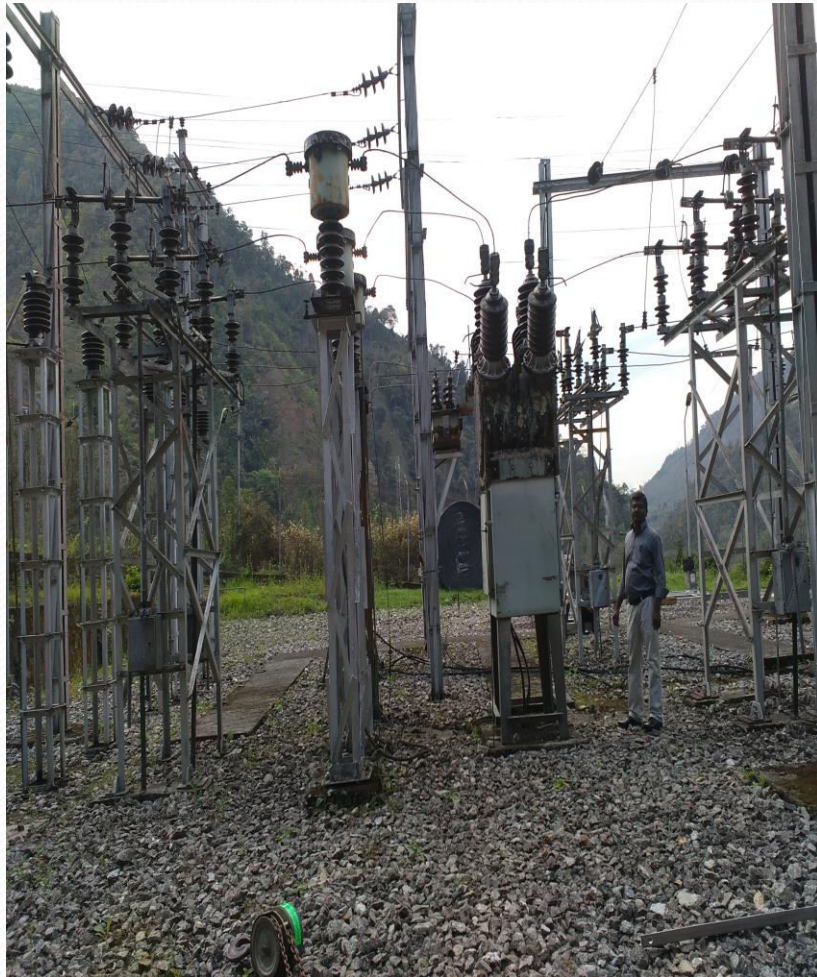
Sl.No	Tasks	S&S	VINGIRI
1	Site Visit for assessment of Existing Site location	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
2	Preparation of site visit report	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
3	Discussion on needed with NEEPCO	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
4	Revision of proposal the in line with discussion	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
5	Firming up technical requirement	✓ <input type="checkbox"/>	X
6	Preparing a commercial offer	✓ <input type="checkbox"/>	X
7	Sign off by NEEPCO for successful completion and issue of completion certification.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
8	Offer part –A supply of equipment / Switchgear.	✓ <input type="checkbox"/>	X
9	Offer part-B field work and consumable.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
10	Final commercial offer.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>

Sl.No	Tasks	S&S	VINGIRI
11	Negotiation	✓ <input type="checkbox"/>	X
12	Finalization of contract between vingiri and NEEPCO.	X	✓ <input type="checkbox"/>
13	Scope of supply in line with Offer & PO to S&S.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
14	S&S contract review and kick off meeting.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
15	Customer engineering	✓ <input type="checkbox"/>	X
16	Drawing submission though vingiri.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
17	Drg Approval.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
18	Collection of advance	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
19	Release of BOQ	✓ <input type="checkbox"/>	X
20	Ordering input	✓ <input type="checkbox"/>	X

Sl.No	Tasks	S&S	VINGIRI
21	Starting of materials finalization	✓ <input type="checkbox"/>	X
22	Design confirmation check.	✓ <input type="checkbox"/>	X
23	Manufacturing Quality check.	✓ <input type="checkbox"/>	X
24	Customer Inspection	X	✓ <input type="checkbox"/>
25	Internal Acceptance	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
26	Customer FAT & Training.	✓ <input type="checkbox"/>	X
27	Obtaining dispatch clearance	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
28	Obtaining payment.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
29	Effective date of shipment	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
30	Receipt of goods at site	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>

Sl.No	Tasks	S&S	VINGIRI
31	Safe storage	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
32	Packing	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
33	Erection and commissioning.	X <input type="checkbox"/>	✓ <input type="checkbox"/>
34	Refurbishment / Replacement of items.	X	✓ <input type="checkbox"/>
35	Completion.	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>
36	Site Acceptance	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>

OLD SF6 VS NEW VACUUM BREAKER



MINUTES OF MEETING – AT MMF



MINUTES OF MEETING

Between NEEPCO (NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED) AND S&S POWER SWITCHGEAR LIMITED

On 05-01-2017, Thursday at SSPSL's MMF Facility at MM Nagar, Chennai

NEEPCO Represented by Mr. M.L.Kumbar, Sr.Manager, E/M,

And S&S Power Switchgear represented by

Mr.S.Ramesh, Manager Production & Supply Chain

Mr.B.Rajamanikandan – Sr.Engineer – Technical,

Mr.M. Manikandakumaran – Service Engineer

1. M/s NEEPCO has placed order thru Vigneti for processing one set of 36kV Vacuum Circuit Breaker on S&S vide their Purchase Order No. RHEP/Sr.M(E/M)/US&W/T-10(Vol-IV)/2016-17/518 dated 02/07/2016 as per the schedule of items mentioned in the order.
2. S&S has invited M/s NEEPCO for witness of inspection and testing i.e Routine test as per relevant IEC standards as per clause 8 of supply Order under Terms & Conditions.
3. During the visit, M/s NEEPCO representative has conveyed apprehension about the
2. M/s NEEPCO has witnessed the following routine tests and the values are observed to be as per the IEC standards shown.
 - a. One minute power frequency voltage withstand dry test on main circuit.
 - b. Voltage withstand test on control and auxiliary circuits
 - c. Measurement of resistance.
 - d. Mechanical operating test as per M 2 class
 - e. Design and visual checks
 - f. Time Test – Breaker Opening and closing time
 - g. Megger Test (5kV) Before HV test and after HV test
8. Necessary Routine Test Report and corresponding standards to be sent along with supply (Routine test report enclosed as Annexure).
9. Erection, Commissioning, Operation & Instruction manual and related setting procedures also to be sent along with supply of material
10. All the Technical Staff and Team of S&S, extended great support during the inspection by S&S in the presence of M/s NEEPCO representative.


M.L.KUMBAR
Sr.Manager (E/M) US&W,
RHEP NEEPCO Ltd


S. RAMESH
5/1/17

12

MINUTES OF MEETING – AT NEEPCO

(NEEPCO LTD.)

1. SHRI M.L.KUMHAR,
Sr. M. (E/M) US&W
2. SHRI S. BORTHAKUR,
Engineer (E/M) US&W
3. SHRI T. TANI,
A.E. (E/M) US&W

VINGIRI POWERTECH PVT. LTD. S&S POWER
SWITCHGEAR LTD.

1. NILU NAYAK

- 1) R. CHANDRAMOULI
- 2) J. SUNDARARAJAN

In response of our order vide NO.RHEP/SR.M(E/M)/US&W/T-10(Vol.-IV)/2016-17/516; Dtd 02/07/2016, M/S Vingiri Powertech Private Ltd, Kolkata, deputed one Service Engineer Sri N. Nayak along with two Service Engineers from the OEM i.e. M/s S&S Power PVT. LTD. Chennai, Mr. R. Chandramouli and Mr. J. Sundararajan who arrived RHEP site on 06th April'17 for Installation and Commissioning of 36 KV VCB, 33KV CTs and 33 KV PT (Outdoor) at DPH (Switchyard) RHEP 43KM site. Service Engineers started their work on the same day and attended the work of Installation and Commissioning of 36 KV VCB, S&S make, CTs & PT of M/s Kalpa Electrical make, at DPH, 43 KM, Yazali and found that:

- The Service Engineer have tested the 36 KV Vacuum Circuit Breaker & found OK and operating in both Local and Remote mode (Close/Trip) after charging of 33KV line.
- CTs are found in operational and also showing both the cores , which are for protection and measuring purpose, are in OK (as per readings) and checked in full load.
- PT is found OK (as per readings) and operating in full load.

Now the 33KV line is charged and functioning of all the above instruments in operation with full satisfaction.

Sri N. Nayak along with Mr. R. Chandramouli and Mr. J. Sundararajan, Service Engineers, left 43 KM site on 12th April'17 Form NEEPCO Ltd.

(NEEPCO LTD.)



VINGIRI POWERTECH PVT. LTD. S&S POWER
SWITCHGEAR LTD.



12/04/17



THANK YOU