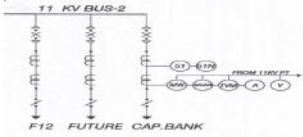


Sl. No.	EQUIPMENT	DESCRIPTION
1		VOLTAGE TRANSFORMER
2		RELAY WITH C.T. SUPPLY
3		TRIP CIRCUIT RELAY
4		CURRENT RELAY
5		RELAY
6		RELAY
7		RELAY
8		RELAY

RELAY/METER DETAILS	DESCRIPTION
(D)	NUMERICAL DISTANCE RELAY
(L)	LOCAL BREAKER BACKUP RELAY
(P)	DIRECTIONAL PHASE O/C RELAY
(E)	DIRECTIONAL E/F RELAY
(S)	DC SUPERVISION RELAY
(M)	MASTER TRIP RELAY
(A)	ANTI PUMPING RELAY
(T)	TRIP CIRCUIT SUPERVISION RELAY
(A)	ANALOG AMMETER
(M)	MULTI-FUNCTION METER, TRANSFORMER LOSS, O/C AND O/S RELAY-ROUNDER
(M)	3-PH, 4-WIRE ETV METER

- NOTES:-
1. ALL THE CT PARAMETERS ARE AS PER THE TECHNICAL SPECIFICATION OF KPTCO.
 2. THE SINGLE LINE DIAGRAM ONLY INDICATES MAJOR PROTECTIVE RELAYS AND METERS. OTHER AUXILIARY RELAYS, INDICATORS, ANNUNCIATORS ETC. WILL BE INDICATED IN THE DETAIL RELAY & PROTECTION PANEL, SCHEMATIC DRAWING.
 3. ALL THE MAIN PROTECTION ARE NUMERICAL RELAY & WILL BE CONFORM TO IEC 60870-102/104 COMMUNICATION PROTOCOL.
 4. THIS DRAWING IS GENERALLY BASED ON IPTCL'S LAY OUT DIAGRAM.



APPROVED *[Signature]* / 19-12-17
 DRG. NO. CE/001/21/05/166 (1/2) / 19-12-17
 Approved Subject to Conditions in the Covering Letter.
 Chief Electrical Inspector to Govt. Government of Karnataka Bangalore - 560 002

BURDEN	ACCURACY CLASS	ISF
5VA	0.2S	≤5 AT ALL RATIOS
5VA	0.2S	≤5 AT ALL RATIOS



CUSTOMER :		KARNATAKA POWER TRANSMISSION CORPORATION LTD.				
CLIENT :		M/s. K.N. BIJAPURA SOLAR ENERGY PVT., LTD. MUMBAI				
PROJECT :		20MW SOLAR PV PROJECT AT NAGATHANA TQ, VIJAYPURA DISTRICT,				
TITLE :		SINGLE LINE DRAWING OF 110/11kV STATION AT TAKKALAKI INDICATING PROPOSED 110KV TERMINAL BAY				
DRAWN	DESIGNED	CHECKED	RECOMMENDED	APPROVED	SCALE	DATE
DRG.No:- KNB/TAKKALAKI/ELE/001				REV. NO	RO	SH.No. 01 of 01

GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)

NO: CEIG/ACEI/EI-1/AEI-3/

05-10

/17-18

Office of the
Chief Electrical Inspector to Government,
Nirmana Bhavan, 2nd floor,
P.B. No: 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-10

Dated: 1/4/17

To,

M/s. JSW Energy Limited,
Toranagalu Village,
Ballari District.

Sir,

Sub: Electrical Safety Approval for the electrical installation of extension of 2 numbers of 400kV bays at existing 1x315MVA, 400/33kV GIS sub-station of M/s JSW Steel Ltd, in the premises of JSW Energy Limited.

- Ref: 1. T.O. Lr. No: CEIG/ACEI/EI-1/AEI-3/50375-80/16-17, Dt. 27-3-2017 approving the installation drawings.
2. Lr. No: JSWEL/Proj/400kV GIS/6531, Dt. 28-3-2017 with the work completion report.

Electrical Safety approval as required under Regulation 43 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 is hereby accorded for electrical installation pertaining to extension of 2 numbers of 400kV bays at existing 1x315MVA, 400/33kV GIS sub-station of M/s JSW Steel Ltd, in the premises of JSW Energy Limited.

This approval is strictly subject to your full compliance with the relevant provision of The Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 (as amended to date) in every respect.

Conditions:

1. As per Regulation No: 46(5) and 46(6) required records shall be maintained.
2. As per Regulation No: 46(7) the installation shall be maintained and operated in a condition free from danger.
3. As per Regulation No: 3 designated person (s) shall operate and carryout the work on electrical lines and apparatus.

Details of Equipments

1. Circuit Breaker

: Make: Alstom, 420KV, 3150A
a) Line-1 (427)
Sl. Nos: T155-CB//001/GD107,
T155-CB//002/GD107
T155-CB//003/GD107
b) Line-2 (428)
Sl. Nos: T155-CB//004/GD107,
T155-CB//005/GD107
T155-CB//006/GD107

2. Current Transformers
(Protection)

: Make: Alstom,
3000/1A, 420KV,
a) Line-1 (427)
Sl. Nos: T155-CT/001, T155-CT/002,
T155-CT/003
b) Line-2 (428)
Sl. Nos: T155-CT/004, T155-CT/005,
T155-CT/006

3. Isolators

: Make: Alstom, 420kV, 3150A,
a) Line-1 (427)
Sl.Nos. QB-1: T155-DS3/008/GD107
T155-DS3/010/GD107
T155-DS3/012/GD107
QB-2: T155-DS3/007/GD107
T155-DS3/009/GD107
T155-DS3/011/GD107
QB-9: T155-DS3/008/GD107
T155-DS3/010/GD107
T155-DS3/012/GD107
b) Line-2 (428)
Sl.Nos. QB-1: T155-DS3/019/GD107
T155-DS3/023/GD107
T155-DS3/021/GD107
QB-2: T155-DS3/020/GD107
T155-DS3/024/GD107
T155-DS3/022/GD107
QB-9: T155-DS3/013/GD107
T155-DS3/016/GD107
T155-DS3/017/GD107

4. Earth Switch

: Make: Alstom, 420kV, 3150A,
a) Line-1 (427)
Sl. Nos. QC-1: T155-ES3/025/GD107
T155-ES3/026/GD107
T155-ES3/027/GD107
QC-2: T155-ES3/028/GD107
T155-ES3/030/GD107
T155-ES3/033/GD107
QC-9: T155-EF3/037/GD107
T155-EF3/039/GD107
T155-EF3/042/GD107
b) Line-2 (428)
Sl. Nos. QC-1: T155-ES3/034/GD107
T155-ES3/035/GD107
T155-ES3/036/GD107
QC-2: T155-ES3/029/GD107
T155-ES3/031/GD107
T155-ES3/032/GD107
QC-9: T155-EF3/038/GD107
T155-EF3/040/GD107
T155-EF3/041/GD107

5. Bus Duct

: Make: Alstom, 4000A, 420KV, GIS Bus Duct

SP 1/4/17

::3::

Inspection fee of Rs. 7400/- (Rupees Seven Thousand Four Hundred only) paid through E-Payment vide Challan Ref. No:CR0317004300005030, Dt. 28-03-2017.

Yours faithfully,

Saini
17/4/17

CHIEF ELECTRICAL INSPECTOR TO GOVT
Chief Electrical Inspector to Govt
Electrical Inspectorate,
Bangalore.

- Copy to: 1. The Addl. Chief Electrical Inspector, Kalaburagi
2. The Dy. Chief Electrical Inspector, Ballari
3. The Electrical Inspector, Ballari
4. The Deputy Electrical Inspector, Ballari
5. M/s. Krupa Engineers & Contractors, Bengaluru-86
6. OC/MC

GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)

NO: CEIG/TEC/DWD-89/

/17-18

28116-22

Office of the
Chief Electrical Inspector to Government,
Nirmana Bhavan, 2nd floor,
P.B. No: 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-10
Dated: 27/10/17

To
M/s. KN Indi Vijayapura Solar Energy Pvt Ltd,
Indi Tq,
Vijayapura District.

Sir,

Sub: Approval of electrical installation pertaining to 1 No. of 110kV metering & protection bay extension at existing 110/11kV Atharga KPTCL Substation pertaining to 20MW Solar Power Plant of M/s. KN Indi Vijayapura Solar Energy Pvt Ltd, Indi Tq, Vijayapura District.

- Ref:
1. Lr. No: KREDL/07/RPO/GC/1200MWs-F269/2016/1251, Dt. 23-03-2016 LOA from KREDL for allotting 20MW SPP at Indi Tq, Vijayapura District.
 2. Lr. No: CEE/BGKT/TRNS/SEE(O)/AEE-5/F-/178-18/3813-15, Dt. 15-6-2017 from The Chief Engineer Electy., Transmission Zone, KPTCL, Bagalkot
 3. Lr. No: PCC(P&C)/SEET/KCO-103/EET-2/64710(KNB)/17-18/10268-272, Dt. 4-9-2017 from the Chief Engineer, Elec., (Planning & Co-ordination), KPTCL, Bengaluru of approval of singleline diagram layout and section drawings.
 4. T.O. Lr. No: CEIG/TEC/DWD-78/24262-67/17-18, Dt. 27-09-2017 according approval of 20MW Solar Power Plant and associated equipments.
 5. T.O. Lr. No: CEIG/TEC/DWD-89/26278-83/17-18, Dt. 12-10-2017 approving the installation drawings.
 6. Lr. No: KIVSEPL/20MW/2017-18/INS-2, Dt. 13-10-2017 with the work completion report from M/s. KN Indi Vijayapura Solar Energy Pvt Ltd.
 7. T.O. Lr. No: CEIG/TEC/DWD-89/ 27466 /17-18, Dt. 24-10-2017 addressed to The DCEI, Belagavi for initial inspection.
 8. Lr. No: DCEI(BGM)/F-CEIG/T.Bay/6015/17-18, Dt. 25-10-2017 from The DCEI, Belagavi with the report of initial inspection and recommendation.

Approval as required under regulation 43 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 is hereby accorded to electrical installation pertaining to 1 No. of 110kV metering & protection bay extension at existing 110/11kV Atharga KPTCL Substation pertaining to 20MW Solar Power Plant of M/s. KN Indi Vijayapura Solar Energy Pvt Ltd, Indi Tq, Vijayapura District.

This approval is strictly subject to your full compliance with the relevant provision of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 (as amended to date) in every respect.

Conditions:

1. As per Regulation No: 46(5) and 46(6) required records shall be maintained.
2. As per Regulation No: 46(7) the installation shall be maintained & operated in a condition free from danger.
3. As per Regulation No: 3 designated person (s) shall operate and carryout the work on electrical lines and apparatus.

:: 2 ::

Details of Equipments

1. SF6 Breaker : Make Crompton & Greaves Limited,
1250A, 145KV, SF6 CB,
Sl. No: 52408C
2. Current Transformer
(Protection) : Make: Pragati Electrical Pvt. Ltd.
400-200/1-1-1A, Class: 0.2, 0.2S, 15 VA
Sl Nos. 17/M69266, 17/M69265, 17/M69264
3. 110kV Metering
- a) Current Transformers. : Make: Pragathi Electrical Pvt. Ltd.
125/1-1, Class: 0.2S/0.2S, 15 VA
Sl Nos. 17/M69273, 17/M69274, 17/M69275
- b) Potential Transformers : Make: Pragathi Electrical Pvt. Ltd
110kV/ $\sqrt{3}$ /110V/ $\sqrt{3}$, Class: 0.2, 0.2S, 10 VA
Sl. No. 17/M69282, 17/M69283, 17/M69284
- c) Energy Meters : Make: L&T, ER300P
3 ph, 4 wire, 3x63.5V 0.2S, 50000Imp/kWh,
Sl. Nos: 17115561 (Main Meter)
17115564(Check Meter)
4. C& R Panel : Make: Sifang
110 KV, Sl.No. Y2017080062P001

Inspection fee of Rs. 3700/- (Rupees Three Thousand Seven Hundred only) paid vide
Challan No: CR1017004300004398 Dt. 13-10-2017 at this office is hereby acknowledged.

Yours faithfully,

CHIEF ELECTRICAL INSPECTOR TO GOVT

- Copy to: 1. The Addl. Chief Electrical Inspector, Dharwad
2. The Dy. Chief Electrical Inspector, Belagavi
3. The Electrical Inspector, Vijayapura
4. The Executive Engineer (Ele), HESCOM, Vijayapura
5. The Deputy Electrical Inspector, Vijayapura
6. M/s. Krupa Engineers & Contractors, Bengaluru
7. MF & OC

GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)

NO: CEIG/TEC/DWD-91/
36236-42 /17-18

Office of the
Chief Electrical Inspector to Government,
Nirmana Bhavan, 2nd floor,
P.B. No: 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-10
Dated: 26/12/17

To
M/s. KN Muddebihal Solar Energy Pvt Ltd,
Muddebihal Tq,
Vijayapura District
Sir,

Sub: Approval of electrical installation pertaining to 1 No. of 110kV metering & protection bay extension at existing 110/33/11kV Muddebihal KPTCL Substation pertaining to 20MW Solar Power Plant of M/s. KN Muddebihal Solar Energy Pvt Ltd, Muddebihal Tq, Vijayapura District

- Ref: 1. Lr. No: KREDL/07/RPO/GC/1200MWs-F269/2016/1249, Dt. 23-03.2016 LOA from KREDL for allotting 20MW SPP at Muddebihal Tq, Vijayapura District.
2. Lr. No: CEE(P&C)/SEET/KCO-103/EET2/64710(KNM)/10263-267/17-18, Dt. 04-09-2017 from The Chief Engineer (Ele), Planning & Co-ordination), KPTCL approving regular power evacuation scheme.
3. Lr. No: CEE(P&C)/SEET/KCO-103/EET2/64710(KNM)/10263-267/17-18, Dt. 04-09-2017 from The Chief Engineer, Electy,(Planning & Co-Ordination), KPTCL, Bengaluru, approval of 110kV bay
4. T.O. Lr. No: CEIG/TEC/DWD-91/26272-77/17-18, Dt. 12-10-2017 approving the installation drawings.
5. Lr. No: KNSSEPL/SE/E-913/189, Dt. 18-12-2017 with the work completion report from M/s. KN Muddebihal Solar Energy Pvt Ltd.
6. T.O. Lr. No:CEIG/TEC/DWD-91/35420/17-18, Dt. 21-12-2017 addressed to The DCEI, Belagavi for initial inspection.
7. Lr. No: DCEI (BGM)/F-CEIG/T.Bay/7805/17-18, Dt. 23-12-2017 from The DCEI, Belagavi with the report of initial inspection and recommenbdation.

Approval as required under regulation 43 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 is hereby accorded to electrical installation pertaining to 1 No. of 110kV metering & protection bay extension at existing 110/33/11kV Muddebihal KPTCL Substation pertaining to 20MW Solar Power Plant of M/s. KN Muddebihal Solar Energy Pvt Ltd, Muddebihal Tq, Vijayapura District.

This approval is strictly subject to your full compliance with the relevant provision of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 (as amended to date) in every respect.

Conditions:

1. As per Regulation No: 46(5) and 46(6) required records shall be maintained.
2. As per Regulation No: 46(7) the installation shall be maintained & operated in a condition free from danger.
3. As per Regulation No: 3 designated person (s) shall operate and carryout the work on electrical lines and apparatus.

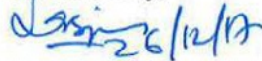
Details of Equipments

1 No. of 110kV metering & protection bay extension at existing 110/33/11kV Muddebihal KPTCL Substation

1. 110kV SF6 Circuit Breaker : Make: CG Power & Industrial Solutions Limited,
145kV, 1250A, 40kA
Sl. No: 52407C
2. Current Transformer (Protection) : Make: Pragathi Elevation Pvt. Ltd.
200/1, 400/1, Class: 0.2/ 0.2S, 10-10 VA
Sl. Nos: 17/M69270, 17/M69271, 17/M 69272
3. 110KV Metering :
- a) Current Transformers : Make: Pragathi Electrical Pvt. Ltd.
150/1-1A, Class: 0.2, 0.2S, 5- 5 VA
Sl. Nos: 17/M69279, 17/M69280, 17/M69281
- b) Potential Transformers : Make; Pragathi Electrical Pvt. Ltd.
110kV/ $\sqrt{3}$ /110V/ $\sqrt{3}$, 0.2S, 0.2S, 10/10VA,
Sl.Nos: 17/M 69288, 17/M 69289, 17/M 69290
- c) Bidirectional Energy Meters : Make: L & T, 3 Ph, 4Wire,
1A, 2x63.5V, Class: 0.2S, 50000 Imp/k Wh
Sl. No: Main Meter : 17115567
Chech Meter : 17115585
4. Control & Relay Panel : Make: Sifang,
Sl. No: Y 2017080062P003

Inspection fee of Rs. 3700/- (Rupees Three Thousand Seven Hundred only) paid through E-Payment vide Challan Ref. No: CR1217004300007955, Dt. 18-12-2017

Yours faithfully,



CHIEF ELECTRICAL INSPECTOR TO GOVT.

- Copy to: 1. The Addl. Chief Electrical Inspector, Dharwad
2. The Dy. Chief Electrical Inspector, Belagavi
3. The Electrical Inspector, Vijayapura
4. The Executive Engineer (Ele), HESCOM, Vijayapura
5. The Deputy Electrical Inspector, Vijayapura
6. M/s. Krupa Engineers & Contractors, Bengaluru
7. MF & OC

GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)

Phone: 23371691

NO: CEIG/TEC/DWD-77/

/17-18

24468-74

Office of the
Chief Electrical Inspector to Government,
Nirmana Bhavan, 2nd floor,
P.B. No: 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-10
Dated: 28/9/17

To
M/s. KN Sindagi Solar Energy Pvt. Limited,
Kokatnoor Village, Sindagi Tq.
Vijayapura District.

Sir,

Sub: Approval of electrical installation pertaining to One number of 33kV metering arrangement at existing 33kV breaker bay at existing 110/33/11kV KPTCL, Devarahipparagi substation pertaining to 5MW Solar Power Plant of M/s. KN Sindagi Solar Energy Pvt. Limited, Vijayapura.

- Ref: 1) Lr. No: KREDL/07/RPO/GC/1200MWs-269/2016/1223, Dt. 23-03-2016 of Letter of Award of KREDL for allotting 20MW SPP at Sindagi Tq. Vijayapura District.
- 2) Lr. No: CEE/BGKT/TRNS/SEE(o)/AEE-5/F/17-18/7720-22, Dt. 30-08-2017 from the from The Chief Engineer (Ele.) Transmission Zone, KPTCL, Bagalkot for regular evacuation scheme for proposed 5MW Solar Power Project.
- 3) Lr. No: CEE.BGKT/TRNS/SEE(O)/AEE-5/F/17-18/8811-16, Dt. 22-09-2016 from The Chief Engineer, Electricity, Transmission Zone, KPTCL, Bagalkot for sparing of one number of idle 33kV terminal bay on rental basis.
- 4) T.O. Lr. No: CEIG/TEC/DWD-77/23752-57/17-18, Dt. 25-09-2017 approving the installation drawings.
- 5) Lr. No: NIL, Dt. 26-09-2017 with the work completion report.
- 6) T.O. Lr. No: CEIG/TEC/DWD-77/23947/17-18, Dt. 26-09-2017 addressed to The DCEI, Belagavi for initial inspection.
- 7) Lr. No: DCEI(BGM)/F-CEIG-Solar/5311/17-18, Dt. 27-09-2017 from The DCEI, Belagavi with the report of initial inspection and recommendation.

Approval as required under Regulation 43 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 is hereby accorded for electrical installation pertaining to One number of 33kV metering arrangement at existing 33kV breaker bay at existing 110/33/11kV KPTCL, Devarahipparagi substation pertaining to 5MW Solar Power Plant of M/s. KN Sindagi Solar Energy Pvt. Limited, Vijayapura.

This approval is strictly subject to your full compliance with the relevant provision of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 (as amended to date) in every respect.

Conditions:

1. As per Regulation No: 46(5) and 46(6) required records shall be maintained.
2. As per Regulation No: 46(7) the installation shall be maintained and operated in a condition free from danger.
3. As per Regulation No: 3 designated person (s) shall operate and carryout the work on electrical lines and apparatus.
4. Separate approval shall be obtained for 33kV breaker after completion of work.

:: 2 ::

Details of Equipments

I: 33kV metering arrangement at existing 33kV breaker bay at existing 110/33/11kV KPTCL, Devarahipparagi substation.

1. 110kV Metering
 - a) Current Transformers : Make: Satlore,
125/1, Class: 0.2s, 5 VA
Sl. Nos: 408108, 408109, 408110
 - b) Potential Transformers : Make: Satlore,
33KV $\sqrt{3}$ /110V $\sqrt{3}$ /110V $\sqrt{3}$, Class: 0.2, 10 VA
Sl. Nos: 408101, 408099, 408100
 - c) Energy Meters : Make: L & T, Model: ER300P
3 Ph, 4 Wire,
-/1A, Class: 0.2S, 50000 Imp/unit
Sl. Nos: Main Meter : 17115583
Check Meter : 17115526

Inspection fee of Rs. 1600/- (Rupees One Thousand Six Hundred only) paid through E-Payment vide Challan Ref. No: CR0917004300009179, Dt. 26-09-2017.

Yours faithfully,

[Handwritten Signature]
28/9/17

CHIEF ELECTRICAL INSPECTOR TO GOVT

Chief Electrical Inspector to Govt
Electrical Inspectorate,
Bangalore.

- Copy to:
1. The Addl. Chief Electrical Inspector, Dharwad
 2. The Dy. Chief Electrical Inspector, Belagavi
 3. The Electrical Inspector, Vijayapura
 4. The Executive Engineer (Ele), HESCOM, Vijayapura
 5. The Deputy Electrical Inspector, Vijayapura
 6. M/s. Krupa Engineers & Contractors, Bengaluru
 7. MF & OC

GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)

NO: CEIG/TEC/DWD-92/

/17-18

3622-8-35

Office of the
Chief Electrical Inspector to Government,
Nirmana Bhavan, 2nd floor,
P.B. No: 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-10
Dated: 26/12/17

To
M/s. KN Sindagi Solar Energy Pvt Ltd,
Sindagi Tq, Vijayapura District

Sir,

Sub: Approval of electrical installation pertaining to 1 No. of 33kV protection bay extension at existing 110/33/11kV Devarahipparagi KPTCL Substation pertaining to 5MW Solar Power Plant of M/s. KN Sindagi Solar Energy Pvt Ltd, Sindagi Tq, Vijayapura District.

- Ref:
1. Lr. No: KREDL/07/RPO/GC/1200MWs-269/2016/1223, Dt. 23-03.2016 LOA from KREDL for allotting 5MW SPP at Sindagi Tq, Vijayapura District.
 2. Lr. No: CEE/BGKT/TRNS/SEE(o)/AEE-5/F/17-18/7720-22, Dt. 30-08-2017 from The Chief Engineer (Ele), Transmission Zone, KPTCL, Bagalkot approval for 33kV bay
 3. Lr. No: CEE/BGKT/TRNS/SEE(O)/AEE-5/F/16-17/15142-54, Dt. 28-12-2016 for regular evacuation approval.
 4. T.O. Lr. No: CEIG/TEC/DWD-92/26260-65/17-18, Dt. 12-10-2017 approving the installation drawings.
 5. Lr. No: KNSSEPL/ESSEL/SE/E-913/189/, Dt. 18-12-2017 with the work completion report from M/s. KN Sindagi Solar Energy Pvt. Ltd.
 6. T.O. Lr. No: CEIG/TEC/DWD-92/35419/17-18, Dt. 21-12-2017 addressed to the DCEI, Belagavi for initial inspection.
 7. Lr. No: DCEI(BGM)/F-CEIG/T.Bay/7804/17-18, Dt. 23-12-2017 from The DCEI, Belagavi with the report of initial inspection and recommendation.

Approval as required under regulation 43 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 is hereby accorded to electrical installation pertaining to 1 No. of 33kV protection bay extension at existing 110/33/11kV Devarahipparagi KPTCL Substation pertaining to 5MW Solar Power Plant of M/s. KN Sindagi Solar Energy Pvt Ltd, Sindagi Tq, Vijayapura District.

This approval is strictly subject to your full compliance with the relevant provision of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 (as amended to date) in every respect.

Conditions:

1. As per Regulation No: 46(5) and 46(6) required records shall be maintained.
2. As per Regulation No: 46(7) the installation shall be maintained & operated in a condition free from danger.
3. As per Regulation No: 3 designated person (s) shall operate and carryout the work on electrical lines and apparatus.

:: 2 ::

Details of Equipments

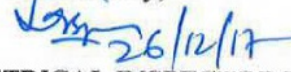
1 No. of 33kV protection bay extension at existing 110/33/11kV Devarahipparagi KPTCL

Substation

- | | |
|--------------------------------------|--|
| 1. 33kV SF6 Circuit Breaker | : Make: CG Power & Industrial Solutions Limited,
33kV, 1250A, 40kA
Sl. No: 52410C |
| 2. Current Transformer (Protection) | : Make: Satlore Transformer Industries,
200-100/1-1A, Class: 0.2/ 5S, 10-30 VA
Sl. Nos: 408110, 408111, 408112 |
| 3. Control & Relay Panel | : Make: Sifang,
Sl. No: Y 2017-80062P004 |

Inspection fee of Rs. 1600/- (Rupees One Thousand Six Hundred only) paid through E-Payment vide Challan Ref. No: CR1217004300007962, Dt. 18-12-2017

Yours faithfully,

 26/12/17

CHIEF ELECTRICAL INSPECTOR TO GOVT.

- Copy to: 1. The Addl. Chief Electrical Inspector, Dharwad
2. The Dy. Chief Electrical Inspector, Belagavi
3. The Electrical Inspector, Vijayapura
4. The Executive Engineer (Ele), HESCOM, Vijayapura
5. The Deputy Electrical Inspector, Vijayapura
6. M/s. Krupa Engineers & Contractors, Bengaluru
7. MF & OC

GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)

NO: CEIG/TEC/DWD-90/

/17-18

30341-47

Office of the
Chief Electrical Inspector to Government,
Nirmana Bhavan, 2nd floor,
P.B. No: 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-10

Dated: 10/11/17

To
M/s. KN Bijapura Solar Energy Pvt Ltd,
Nagathana Tq,
Vijayapura

Sir,

Sub: Approval of electrical installation pertaining to 1 No. of 110kV metering & protection bay extension at existing 110/11kV Takkalakki KPTCL Substation pertaining to 20MW Solar Power Plant of M/s. KN Bijapura Solar Energy Pvt Ltd, Nagathana Tq, Vijayapura.

- Ref: 1. Lr. No: KREDL/07/RPO/GC/1200MWs-F269/2016/1250, Dt. 23-03.2016 LOA from KREDL for allotting 20MW SPP at Bijapur-Nagathana Tq. Vijayapura District.
2. Lr. No: CEE(P&C)/SEE(Plg)/EE(PSS)/KCO-96/64271/F-908/17372-89, Dt. 08-02-2017 from The Chief Engineer (Ele), Planning & Co-ordination), KPTCL approving regular power evacuation scheme.
3. Lr. No: CEE(P&C)/SEET/KCO-103/EET2/64710(KNI)/10273-277/17-18, Dt. 04-09-2017 from The Chief Engineer, Electy,(Planning & Co-Ordination), KPTCL, Bengaluru, approval of 110kV bay
4. T.O. Lr. No: CEIG/TEC/DWD-90/26266-71/17-18, Dt. 12-10-2017 approving the installation drawings.
5. Lr. No: KNBSEPL/20MW/2017-18/INS-3, Dt. 13-10-2017 with the work completion report from M/s. KN Bijapura Solar Energy Pvt Ltd.
6. T.O. Lr. No: CEIG/TEC/DWD-90/2746717-18, Dt. 24-10-2017 addressed to The DCEI, Belagavi for initial inspection.
7. Lr. No: DCEI(BGM)/F-CEIG/T.Bay/17-18/6276, Dt. 04-11-2017 from The DCEI, Belagavi with the report of initial inspection and recommendation.

Approval as required under regulation 43 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 is hereby accorded to electrical installation pertaining to 1 No. of 110kV metering & protection bay extension at existing 110/11kV Takkalakki KPTCL Substation pertaining to 20MW Solar Power Plant of M/s. KN Bijapura Solar Energy Pvt Ltd, Nagathana Tq, Vijayapura.

This approval is strictly subject to your full compliance with the relevant provision of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations 2010 (as amended to date) in every respect.

Conditions:

1. As per Regulation No: 46(5) and 46(6) required records shall be maintained.
2. As per Regulation No: 46(7) the installation shall be maintained & operated in a condition free from danger.
3. As per Regulation No: 3 designated person (s) shall operate and carryout the work on electrical lines and apparatus.

Details of Equipments

1. SF6 Breaker

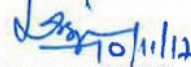
: Make : CG Power and Industrial Solution Ltd.
1250A, 145KV, SF6 CB,
Sl. No: 52407C

:: 2 ::

2. Current Transformers (Protection) : Make: Pragathi Electricals Pvt.Ltd.
200-400/1-1A, 0.2S, 10 VA
Sl. Nos. 17/M69267, 17/M69268, 17/M69269
3. 110kV Metering
- a) Current Transformers. : Make: Pragathi Electrical Pvt.Ltd.
150/1-1, 0.2S, 15VA
Sl Nos. 17/M69276, 17/M69277, 17/M69278
- b) Potential Transformers : Make: Pragathi Electricals Pvt. Ltd.
110KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$, Class:0.2, 0.2S, 10VA,
Sl. No. 17/M69285, 17/M69286, 17/M69287
- c) Energy Meters : Make: L&T, ER300P
3 ph, 4 wire, 3x63.5V 0.2S, 50000Imp/kWh ,
Sl. Nos: 17115565 (Main Meter)
17115556 (Check Meter)
4. C& R Panel : Make: Sifant,
110 KV, Sl.No.SFIB400004143217000051

Inspection fee of Rs. 3700/- (Rupees Three Thousand Seven Hundred only) paid vide
Challan No: CR1017004300004410, Dt. 13-10-2017 is hereby acknowledged.

Yours faithfully,



CHIEF ELECTRICAL INSPECTOR TO GOVT

- Copy to: 1. The Addl. Chief Electrical Inspector, Dharwad
2. The Dy. Chief Electrical Inspector, Belagavi
3. The Electrical Inspector, Vijayapura
4. The Executive Engineer (Ele), HESCOM, Vijayapura
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