



**STEEL PRODUCTS LIMITED**

# **SPECIALISED OPGW STRINGING WORKS**

**96 Garden Reach Road, Kolkata-700023  
West Bengal, INDIA**



# STEEL PRODUCTS LIMITED



**About SPL**



**Highlights of Achievement**



**Resources of OPGW Projects**



**Basics of Installation Works**



**Track Record -Completed & Work in hand**



# INTRODUCTION

- ❖ Steel Products Limited incorporated in 1917 is one of the oldest public limited company listed on the Calcutta Stock Exchange. It started as a SSI unit in 1987 for the manufacturing of Galvanized Hamilton Tubular Poles.
- ❖ In early 2000's, company started the OPGW installation Projects in India and overseas.
- ❖ We are having our associate organization in Malaysia as HG Power Transmission Sdn. Bhd. who are EPC contractors for construction of transmission lines upto 500KV transmission lines. They started OPGW live line installation as JV partners to LS Cables Korea.
- ❖ We are the first company in India to adapt OPGW live-line & Off-line installation technology.



# INTRODUCTION

- ❖ We are the only company in India having hands-on experience of OPGW live-line and off-line installation in Bangladesh, Bhutan, Nepal, Myanmar.
- ❖ With our Malaysian associates, we had commissioned OPGW installation projects in Malaysia, Papua New Guinea, Bangladesh, Indonesia etc.
- ❖ We are the only company in India to execute and commission more than 30000 km OPGW till date and having more than 6500 km orders in hands.
- ❖ We are the only company in India having 35 working teams along with own OPGW live line installation tools generating monthly output of more than 750 km per month.
- ❖ We are having trained workers with passport who have worked overseas and can deploy upto 8 gangs.
- ❖ The Company's objective is to undertake large projects for installation of OPGW live line and offline installation in India and overseas



# INTRODUCTION

## Highlights

- ❖ We are the first company in India to execute live line installation of 550 Km of ADSS in live line conditions and 350 Km of OPGW in one circuit off conditions with Pirelli Cave e Sistemi Telecom S.p.A (now known as Prysmian) in 2003.
- ❖ We execute had executed first live line OPGW installation in 2005 with Ariva T & D.
- ❖ We have successfully executed live line OPGW installation in heavy snow zone areas with the maximum altitude of 2900 meter in the areas of Jammu and Kashmir.



# INTRODUCTION

## Highlights

- ❖ We have successfully commissioned OPGW installation in three sea crossing spans of 1800 meters in Ganga Sagar, West Bengal.
- ❖ We have successfully completed OPGW installation in higher altitudes spans with maximum span length of 1410 meters in Bhutan.
- ❖ We have successfully completed OPGW live line installation of 2800 Km on 765 Kv links of PGCIL.
- ❖ We have successfully executed contracts in Jammu Kashmir and Himachal Pradesh at an altitude of over 2500 meters in snow bound areas during the month of January & February
- ❖ We have successfully completed OPGW live line installation of 8000 Km on various 400 KV transmission lines, 12000 Km on various 220 KV lines and 7657 Km on various 132 KV & 66 KV lines.



# RESOURCES OF OPGW PROJECTS

- \* Project Managers- 6
- \* Assistant Managers- 10
- \* Senior Engineers- 12
- \* Project Engineers- 40
- \* Safety Officers- 15
- \* Splicer- 10
- \* Technician- 6
- \* Fitters & Manpower- 1200 above





# BASICS OF INSTALLATION WORKS

## *CRADLE BLOCK STRINGING TECHNOLOGY*

- INSTALLATION PLAN
- MATERIALS AND FITTINGS PLAN
- PREPARATION PLAN
- STRINGING PLAN
- RECOVERY PLAN





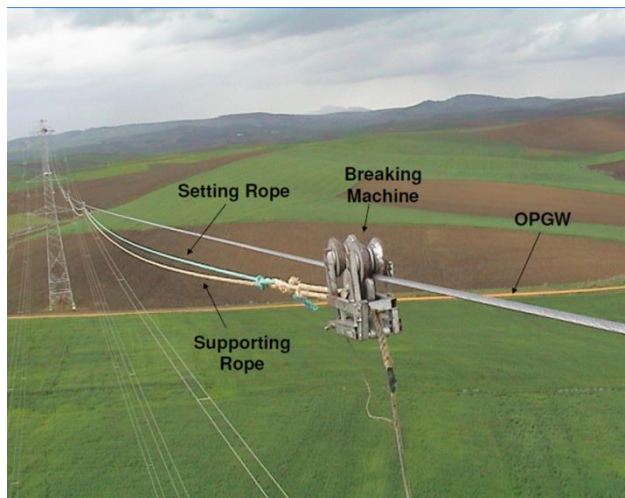
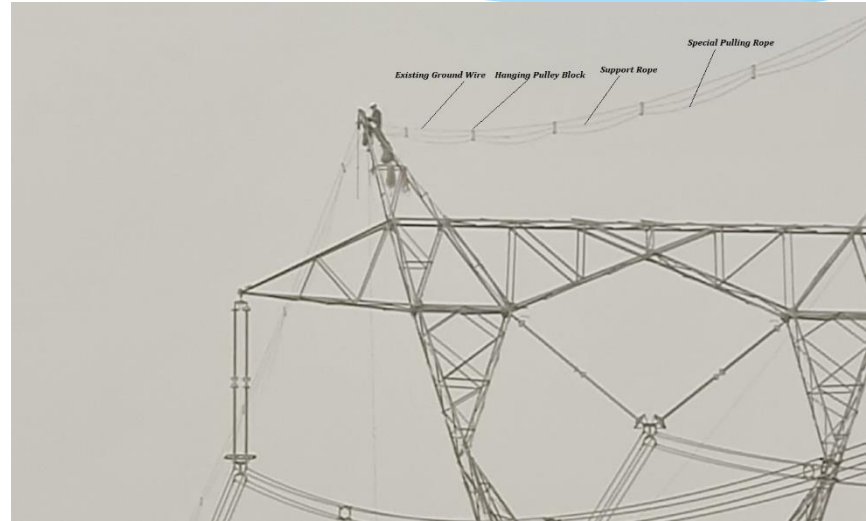
# BASICS OF INSTALLATION WORKS

## *CRADLE BLOCK OPGW STRINGING SOLUTION*





# SITE PICTURES





# SITE PICTURES







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96,Garden reach Road, Kolkata-700023

## DETAILS OF LIVE-LINE OPGW INSTALLATION WORKS -- COMPLETED

| Sl. No       | NAME OF EMPLOYER            | PROJECT LOCATION        |       | NAME OF PROJECT   | VOLTAGE                          | LENGTH (KMS) | YEAR OF COMPLETION |
|--------------|-----------------------------|-------------------------|-------|---|----------------------------------|--------------|--------------------|
| 1            | PCST/PGCIL                  | SOUTHERN INDIA          |       | SRSC&C PROJECT  |                                  | 900          | 2004               |
| 2            | AREVA/JSPL                  | INDIA                   |       | Taramail-Punjipatra and Patrapali-Tanmar coal minesLine | 220 kV                           | 55           | 2005               |
| 3            | PGCIL                       | NER                     | India | bongaigaon-gelephu Link                                 | 132 kV                           | 51           | 2011               |
| 4            | BPCL                        | Bhutan                  |       | phuentsoling-thimphu Link                               | 220 kV                           | 87           | 2011               |
| 5            | MJCPL                       | Nepal                   |       | Hetauda-pathalia 7Lahan-Duhabi                          | 132 kV                           | 35           | 2011               |
| 6            | PGCIL                       | NRTCC                   | India | DELHI-MEERUT Link                                       | 400 kV                           | 90           | 2012               |
| 7            | DECCL                       | Myanmar                 |       | Taryargone-kamanet 230 kv                               | 220 kV                           | 94           | 2013               |
| 8            | PGCIL                       | ER-II                   | India | Various Link in West Bengal and odisha                  | 400 kV/220 kV                    | 540          | 2015               |
| 9            | ZTT/UPPTCL                  | UTTAR PRADESH           | India | Vaarious Link in Uttar Pradesh                          | 220 kV/132 kV                    | 375          | 2015               |
| 10           | ABCT/MEE,Myanmar            | Myanmar                 |       | Mansan-Shwesaryan                                       | 230 kV                           | 124          | 2017               |
| 11           | ZTT/PGCIL/DVC               | WEST BENGAL & JHARKHAND | INDIA | DVC   | 132kV/ 220kV                     | 790          | 2017               |
| 12           | ZTT/PGCIL/WBSETCL           | WEST BENGAL             | India | WBSETCL   | 132kV/ 220kV/ 400kV              | 3150         | 2018               |
| 13           | PGCIL/AP TRANSCO & TELANGAN | A.P                     | India | AP-Transco  | 66kV/ 132kV/ 220kV               | 671          | 2018               |
| 14           | PGCIL                       | NR- Various States      | India | NR Project  | 132kV/ 220kV/ 400kV              | 2100         | 2019               |
| 15           | PGCIL/MPPTCL                | M.P                     | India | MP Project  | 132kV/ 220kV                     | 666          | 2019               |
| 16           | PGCIL/MPPTCL                | M.P                     | India | MP Project  | 765kV                            | 558          | 2019               |
| 16           | BFE/ MOEE/HGPT              | Mayanmar                |       | 132kV (Namsan – Kalaw) Transmission Line                | 132kV                            | 115          | 2019               |
| 17           | ZTT/APTransCo               | Andra Pradesh           | India | APTransCo   | 66kV/ 132kV/ 220kV               | 775          | 2020               |
| 18           | ZTT/RRVPNL                  | Rajasthan               | India | RRVPNL  | 66Kv/ 132kV/220kV                | 7300         | 2020               |
| 19           | APAR/PGCIL                  | NR-2                    | India | PGCIL   | 66kV/ 132kV/ 220kV/ 400kV/ 765kV | 2140         | 2021               |
| 20           | APAR/HPSEB                  | Himachal Pradesh        | India | HPSEB   | 66kV/ 132 kV/ 220 kV             | 150          | 2021               |
| 21           | ZTT/ PGCIL ER-I             | PGCIL-ER1 & ER2         | India | PGCIL   | 400kV                            | 948          | 2021               |
| 22           | ZTT/PGCIL NR3               | PGCIL-NR3               | India | PGCIL   | 220kV/ 400 kV/ 765kV             | 880          | 2021               |
| 23           | LS/KFON                     | KFON                    | India | KFON  | 132kV/ 220kV                     | 598          | 2023               |
| <b>TOTAL</b> |                             |                         |       |   |                                  | <b>23192</b> |                    |



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## DETAILS OF LIVE-LINE OPGW INSTALLATION WORKS -- UNDER EXECUTION

| Sl. No       | NAME OF EMPLOYER        | PROJECT LOCATION | NAME OF PROJECT | VOLTAGE             | LENGTH (KMS)   | Completed As on Date (in Km) | Balance (in Km) | YEAR OF COMPLETION |
|--------------|-------------------------|------------------|-----------------|---------------------|----------------|------------------------------|-----------------|--------------------|
| 1            | ZTT/MPPTCL              | India            | MPPTCL          | 132kV/ 220kV/ 400kV | 4000.00        | 2800.00                      | 1200.00         |                    |
| 2            | APAR/PGCIL/WR-I         | India            | WR1             | 220kV/ 400kV/ 765kV | 1129.00        | 650.00                       | 479.00          |                    |
| 3            | APAR/PGCIL/WR-II        | India            | WR2             | 220kV/ 400kV/ 765kV | 1499.00        | 1150.00                      | 349.00          |                    |
| 4            | APAR/PGCIL/NROSS        | India            | NR2             | 220kV/ 400kV/ 765kV | 798.00         | 400                          | 398.00          |                    |
| 5            | APAR/PGCIL/NER          | India            | NER             | 132kV/ 220kV/ 400kV | 2055.00        | 850                          | 1205.00         |                    |
| 6            | SPL/CSPTCL              | India            | CSPTCL          | 132kV/ 220kV/ 400kV | 4588.00        | 2300                         | 2288.00         |                    |
| 7            | WBSETCL                 | India            | WBSETCL         | 132kV/ 220kV/ 400kV | 720.00         | 250                          | 470.00          |                    |
| 8            | UPPTCL                  | India            | UPPTCL          | 132kV/ 220kV        | 1800.00        | 0                            | 1800.00         |                    |
| 9            | PGCIL- Jodhpur Kankroli | India            | PGCIL           | 400kV               | 186.00         | 0                            | 186.00          |                    |
| <b>TOTAL</b> |                         |                  |                 |                     | <b>14789.0</b> | <b>8400.0</b>                | <b>8375.0</b>   |                    |



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THANK YOU