

| | |
|---|--|
| Equivalent Generation from Grid side | =Syn Reactance x Fault MVA supplied by Grid= 0.31 x 925.03 MVA= 286 MVA |
| Minimum Support provided by Grid is the Minimum of 122.22 MVA & 286 MVA | 122.22 MVA |
| Cost of No load Loss in KVA/Month Considering 0.3% of the Trf Capacity as No load Loss at P.F-0.1(No load loss of Transformers are normally in the range of 0.3 to .5% of Capacity of Transformers) | =20376 MVA x0.1 x 0.003 x 24Hrs x 30 days=4401 MUs =4401000 Kwh(Units) Considering the cost of power by CGPs @ Rs 5.75 per Unit, the total cost = Rs 5.75 X 4401000 Units=Rs2,53,05.750(INR) Cost of power per kva/Month=Rs 1.24 |
| Transmission Charge considering the Total ARR, Generation Capacity etc per KVA/Month | = 925.54 Cr/(14830 MW*1000/0.9*12)=46.81 per KVA/Month |
| GSC as per Base MVA Support method | = Cost of Generation x (MVA Support by Grid(in Rs) – Contract demand – Power Exported to Grid by CGPs in Rs) + No load cost of power(Rs) |

Taking the above required Data from the above Table, we proceed to calculate the GSC of M/s IFFCO as follows :

MVA Support By Grid= 122.22 MVA(RTC)= 122220 KVA

MVA Support by the CGP(IFFCO)= 30.963 MVA = 30963 KVA

Power Exported = NIL as CGPs are at present on Zero Export Mode

Cost of Transmission Charge Per KVA/Month= Rs 46.81(Earlier determined)

Cost of No Load Loss = Rs 1.24

Contract Demand = 11.0MVA

Total Support Received by M/s IFFCO/Month in Rs = Rs 46.81 x1000 x (122.22 MVA – 30.963 MVA) = Rs 42,71,740.00

GSC Received by IFFCO per KVA/month = Cost of No Load Loss + Total Support Received By IFFCO/Month/KVA(Rs) =Rs 1.24 + Rs 42,71,740/122220= Rs 36.19/kvA/Month.

Total GSC in Rs/Month = GSC x (Installed Capacity – CD – Export)



Signature

i.e. Rs 36.19 (122220KVA- 11000KVA – 0) = Rs 40,25,051.00/Month

Effective GSC/KVa/Month =Rs 40,25,051 / 122220 = Rs 32.93/KVA/Month
(For IFFCO)

49. That, similar examples are taken for other CGPs and a list shown in Tabular form enclosed hereunder for kind appreciation of Hon'ble Commission.

| CGP Name | Installed Capacity in MW | Voltage level | Contract demand | Synchronous Reactance | GSC in Rs/ KVA/ month |
|--------------------|--------------------------|---------------|-----------------|-----------------------|-----------------------|
| Vedanta | 1215 | 220 | 66.66 | 0.23 | Rs.12.25 |
| BPPL | 135 | 132 | 5.56 | 0.23 | Rs. 27.23 |
| Tata Power | 135 | 220 | 34 | 0.35 | Rs.35.43 |
| JSPL, Angul | 810 | 400 | 55.56 | 0.22 | Rs.37.93 |
| Bhusan | 506 | 220 | 111.1 | 0.23 | Rs. 29.32 |
| Aarati | 40* | 132 | 11.1 | 0.23 | Rs. 31.27 |
| Bhusan Meramundali | 740 | 220 | 112 | .24 | Rs 34.51 |
| Hindalco | 467.5 | 220 | 20 | .19 | Rs 33.66 |
| Aditya Al | 900 | 220 | 55.56 | .23 | Rs 28.67 |
| IFFCO | 110 | 132 | 11 | .31 | Rs 32.93 |
| Average | | | | | Rs 30.41 |

*Installed Capacity of Aarati Steels is 90MW.On the day of test 50MW Generator was out of service.

50. That the Average of these comes as Rs 30.41 per Month per KVA.
51. That it is also observed that, gradually when the Grid Size / Quantum of power handling by the Grid increases in future, the GSC Charge of CGPs will come down and will be acceptable to the CGP owners.
52. That the petitioner craves leave to make further additional submissions in the interest of justice and in the interest of justifying OPTCL's claim for such charges.

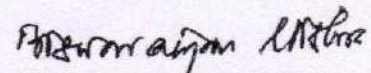


PRAYER

That the Hon'ble Commission may please be gracious enough to accept the petition and approve the proposed Grid Support Charge @Rs 30.41/KVA/Month and issue appropriate order in this regard.

That for the above act of kindness the petitioner (OPTCL) as in duty bound shall ever pray.

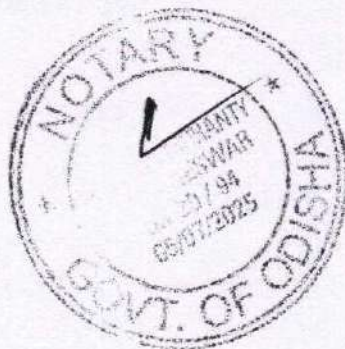
By the Applicant OPTCL
Through


(Biswaranjan Mishra)

Sr. General Manager (RT & C)
OPTCL

Place: **Bhubaneswar**

Date: **23.09.2020**



BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION
CHUNOKOLI, SAILASHREE VIHAR, BHUBANESWAR.

CASE NO:
FILING NO:

IN THE MATTER OF: An application for Determination and approval for levy of
Grid Support Charges (GSC) for industries having Captive
Generating / Cogeneration Plants and running in parallel
with the Grid of Odisha Power Transmission Limited.

AND

IN THE MATTER OF: Odisha Power Transmission Corporation Limited, Janpath,
Bhubaneswar-7510022

.....Applicant

AFFIDAVIT

I, Biswaranjan Mishra, son of Umesh Chandra Mishra, aged about 55 years, residing in
Shreevihar, Patia, Bhubaneswar-751 031, do solemnly affirm as follows:

1. That, I am the Sr General Manager, Regulation, Tariff & Commercial, OPTCL, and am
duly authorized by the said Applicant to make this affidavit on its behalf.
2. That, the statements made in Paragraphs hereinabove are based on official information
and I believe those to be true

DEPONENT

Place: **Bhubaneswar**
Date: **23.09.2020**

Biswaranjan Mishra
(Biswaranjan Mishra)

Sr. General Manager (RT & C)
OPTCL



SWORN BEFORE ME

Nataraj Mohanty
N. MOHANTY

NOTARY 23.09.2020

Regd. No. ON 20794
482, Bhoi Nagar,
Bhubaneswar 751002