

No. 15/3/2018-Trans-Part (4)  
Government of India  
Ministry of Power  
Shram Shakti Bhawan, Rafi Marg, New Delhi-110001

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Date: 18<sup>th</sup> March; 2025

### OFFICE MEMORANDUM

**Subject: Modification in the scope of transmission scheme "Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}" - reg.**

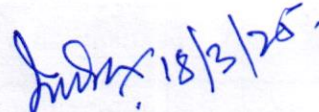
The undersigned is directed to refer to this ministry's O.M. dated 20.08.2024 vide which the transmission scheme "Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}" was awarded to PGCIL for implementation under RTM mode based on the recommendation of 20<sup>th</sup> meeting of the National Committee on Transmission (NCT) and to say that NCT in its 25<sup>th</sup> meeting has approved the establishment of the Onshore Pooling Station as GIS in place of AIS near Avaraikulam in Tirunelveli District of Tamil Nadu under the subject scheme. The detailed revised scope is as under:

Sl. No.	Revised Scope of the Transmission Scheme	Capacity / km	Remarks
<b>A. Transmission System onwards Onshore Pooling Station</b>			
i.	Establishment of 2x500 MVA, 400/230 kV Onshore Pooling Station (GIS) near Avaraikulam, Tirunelveli District in Tamil Nadu with provision of expansion upto 5 GW  <b>Future Space Provisions:</b> <ul style="list-style-type: none"> <li>• 400/230 kV, 500 MVA, ICTs – 10 Nos.</li> <li>• 400 kV ICT bays – 10 Nos.</li> <li>• 230 kV ICT bays – 10 Nos.</li> <li>• 400 kV line bays – 12 Nos. (with provision for SLR)</li> <li>• 230 kV line bays – 18 Nos.</li> <li>• 230 kV Bus Sectionalizer : 3 sets</li> <li>• 230 kV Bus Coupler (BC) Bay – 3 Nos.</li> </ul>	<ul style="list-style-type: none"> <li>• 400/230 kV, 500 MVA, ICTs – 2 Nos.</li> <li>• 400 kV ICT bays – 2 Nos. (GIS)</li> <li>• 230 kV ICT bays – 2 Nos. (GIS)</li> <li>• 400 kV line bays – 2 Nos. (GIS) (at Avaraikulam Onshore PS for termination of Avaraikulam Onshore PS – Tuticorin PS line)</li> <li>• 230 kV line bays – 2 Nos. (GIS)</li> <li>• 230 kV Bus Coupler (BC) Bay – 1 No. (GIS)</li> </ul>	Pooling station and bays change from AIS to GIS
ii.	Avaraikulam Onshore PS – Tuticorin PS 400 kV D/c quad line	Line length ~100 km <ul style="list-style-type: none"> <li>• 400 kV line bays - 2 (at Tuticorin PS)</li> </ul>	No change
iii.	± 300 MVar STATCOM along with 2x125 MVar MSR	<ul style="list-style-type: none"> <li>• 400 kV bay – 1 No. (GIS) (additional 1 No. GIS bay for dia completion)</li> </ul>	AIS to GIS bay



<b>B. Transmission System for integration of Offshore Wind Farms with Onshore PS</b>			
	<b>Offshore Substation-1 {500 MW VGF}</b>		
1.	Establishment of 2x315 MVA, 230/66 kV Off-Shore Substation-1 (GIS) with 10 Nos. of 66 kV line bays for RE integration	<ul style="list-style-type: none"> <li>• 230/66 kV, 315 MVA, ICTs – 2 Nos.</li> <li>• 230 kV ICT bays – 2 Nos. (GIS)</li> <li>• 66 kV ICT bays – 2 Nos. (GIS)</li> <li>• 230 kV line bays – 2 Nos. (GIS) (at Off-Shore Substation-1 for termination of Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS line)</li> <li>• 66 kV line bays – 10 Nos. (GIS)</li> </ul>	Pooling station and bays change from AIS to GIS
2.	Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS 2 Nos. 230 kV (at least 300 MVA capacity) Submarine cables (~35 - 40 km) with 2x50 MVar switchable line reactors at OSS-1 end	<ul style="list-style-type: none"> <li>• Cable length ~35 - 40 km</li> <li>• 230 kV, 50 MVar switchable line reactors at OSS-1 end – 2 Nos.</li> </ul>	No change

2. This issues with the approval of Minister of Power.

  
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Copy to:

1. Member (PS), CEA, New Delhi
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