

**PROJECT GROUP I**  
**POWER SECTOR – PROJECT ENGINEERING MANAGEMENT**  
**BHARAT HEAVY ELECTRICALS LIMITED**

**SPECIAL CONDITIONS OF CONTRACT (SCC) Rev.00**  
**3 X 800 MW NLC Talabira EPC**  
**(JOB NO. 511)**

These Conditions shall be read and construed along with latest applicable (i.e. BOI or BOP) General Conditions of Contract (GCC/ATC) enclosed along with the tender enquiry. In case of any conflict or inconsistency, the conditions given in SCC shall prevail over the GCC.

Sl. No.	Title	Description
1.	Project Name	<b>3 X 800 MW NLC Talabira EPC</b>
2.	Type of project	Non Mega Power Project
3.	BHEL's Customer	NLC INDIA LIMITED (NLCIL)
4.	NLCIL TALABIRA GST No.	21AAACN1121C1ZL
5.	Customer Consultants	Development Consultants Private Limited (DCPL)
6.	Buyer and Paying Authority	For packages where BHEL PEM will issue the Purchase Order - BHEL PEM will be the paying authority. For packages where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL PSSR - BHEL PSSR Site will be the paying Authority.
7.	Paying Authority (Bill To)	<b><u>FOR SUPPLY PACKAGES:</u></b> BHEL, Power Sector-Project Engineering Management, Power Project Engineering Institute, Plot No. 25, Sector-16A, Noida, Uttar Pradesh-201301. BHEL-PEM GSTIN: 09AAACB4146P2ZC  <b><u>FOR TURNKEY PACKAGES</u></b> (where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL-PSSR):  Construction Manager, BHEL site office, 3 X 800 MW NLC TALABIRA THERMAL POWER PROJECT, PHASE – I (NTTPP) DISTRICT-JHARSUGUDA, ODISHA- 768202 BHEL-PSSR - GSTIN No.- 21AAACB4146P1ZR
8.	Consignee Address (Ship To)	Construction Manager, BHEL site office, 3 X 800 MW NLC TALABIRA THERMAL POWER PROJECT, PHASE – I (NTTPP) DISTRICT-JHARSUGUDA, ODISHA- 768004 BHEL-PSSR - GSTIN No.- 21AAACB4146P1ZR
9.	Location of Plant	The NTTPP is located in Jharsaguda, Sambalpur District of Odisha State Nearest Airport: Jharsuguda (20 km) Nearest Railway Station: Jharsuguda (11 Km) Nearest Town : Jharsuguda (11 Km)
10.	BHEL GSTIN Details	<b>For supply packages:</b> BHEL-PEM is registered in the State of Uttar Pradesh with GSTIN <b>09AAACB4146P2ZC</b> <b>For Turnkey packages:</b> BHEL-PSSR - GSTIN No.- 21AAACB4146P1ZR
11.	Mode of Dispatch	By Rail/Road/Sea on door delivery and freight pre-paid basis

Digitally signed by  
AMIT MEENA  
DN: cn=AMIT MEENA,  
o=BHEL, ou=PEM,  
email=amit.meena@bhel.in, c=IN  
Date: 2024.08.05  
16:27:34 +05'30'

**AMIT MEENA**

12.	Packages for which CIF value considered	NIL
13.	Inspection Agency	Inspection of packages shall be carried out by agency as per NLCIL/BHEL approved QAP.
14.	Facilities in the scope of Contractor/ BHEL (Scope Matrix) (as applicable for BOP packages)	Refer Annexure to SCC enclosed.
15.	Submission of Final Drgs/ Docs along with O&M Manual, Type Test Certificates (if any)	As per applicable GCC / Tender documents/Kick-off meeting.

**AMIT  
MEENA**

Digitally signed by AMIT  
MEENA  
DN: cn=AMIT MEENA,  
o=BHEL, ou=PEM,  
email=amitmeena@bhel.in,  
c=IN  
Date: 2024.08.05 16:28:01  
+05'30'

**ANNEXURE TO SCC REV 00**  
**FACILITIES IN THE SCOPE OF CONTRACTOR/ BHEL (SCOPE MATRIX)**

Sl. No	Description  PART I	Scope		Remarks
		BHEL	Bidder	
<b>3.1</b>	<b>Establishment:</b>			
<b>3.1.1</b>	<b>For Construction Purpose:</b>			
a	Open space for office (as per availability within project premises)	Yes		Free of cost as provided by NLCIL on as is where is basis
b	Open space for storage (as per availability within project premises)	Yes		Free of cost as provided by NLCIL on as is where is basis
c	Construction of bidder's office, canteen and storage building including supply of materials and other services		Yes	
d	Bidder's all office equipment, office / store / canteen consumables		Yes	
e	Canteen facilities for the bidder's staff, supervisors and engineers etc.		Yes	
f	Firefighting equipment like buckets, extinguishers etc.		Yes	
g	Fencing of storage area, office, canteen etc. of the bidder		Yes	
h	Development of land provided for office, storage, fabrication yard, etc.		Yes	
<b>3.1.2</b>	<b>For living purpose of the bidder:</b>			
a	Open space for labour colony		Yes	Space to be arranged by Bidder at his own cost and make his own arrangements for shelter and transportation of laborers as per requirement.
b	Labour Colony with internal roads, sanitation, complying with statutory requirements		Yes	
<b>3.2</b>	<b>Electricity:</b>			
<b>3.2.1</b>	<b>Electricity for construction purposes</b>			On chargeable basis. Refer clause 3.11
a	Single point source (In general) For detail, refer clause no. 3.11	Yes		
b	Further distribution for the work to be done which include supply of materials and execution		Yes	At bidder's own cost

**AMIT  
MEENA**

Digitally signed by AMIT MEENA  
DN: cn=AMIT MEENA, o=BHEL,  
ou=PEM,  
email=amitmeena@bhel.in, c=IN  
Date: 2024.08.05 16:28:16 +05'30'

Sl. No	Description  PART I	Scope		Remarks
		BHEL	Bidder	
c	Distribution of Electricity for the office, stores, canteen, of the bidder which include supply of materials and execution		Yes	At bidder's own cost
d	Supply, installation and connection of energy meter including operation and maintenance		Yes	At bidder's own cost. Calibration certificate to be provided
e	Duties and deposits including statutory clearances for the above		Yes	At bidder's own cost
f	Demobilization of all the facilities after completion of works		Yes	At bidder's own cost
3.2.2	<b>Electricity for living accommodation for the bidder's staff, engineers, supervisors, labour Hutment etc.</b>			
a	Single point source		Yes	At bidder's own cost
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	At bidder's own cost
c	Payment/Duties and deposits including statutory clearances if applicable		Yes	At bidder's own cost
3.3	<b>Water Supply:</b>			
3.3.1	<b>For construction purposes:</b>			<b>Contractor to draw water from Bhedan river</b>
a	Making the water available at single point		Yes	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.2	<b>Water supply for bidder's office, stores, canteen etc.</b>			<b>Contractor to draw water from Bhedan river</b>
a	Making the water available at single point		Yes	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.3	<b>Water supply for Living Purpose</b>			<b>Contractor has to make his own arrangement</b>
a	Making the water available at single point		Yes	

**AMIT  
MEENA**

Digitally signed by AMIT MEENA  
DN: cn=AMIT MEENA, o=BHEL,  
ou=PEM,  
email=amitmeena@bhel.in, c=IN  
Date: 2024.08.05 16:28:31 +05'30'

Sl. No	Description  PART I	Scope		Remarks
		BHEL	Bidder	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
<b>3.4</b>	<b>Lighting</b>			
a	For construction work (supply of all the necessary materials) 1. At office/storage area 2. At the preassembly area 3. At the construction site /area		Yes	
b	For construction work (execution of the lighting work/ arrangements) 1. At office/storage area 2. At the preassembly area 3. At the construction site /area		Yes	
c	Providing the necessary consumables like bulbs, switches, etc. during the course of project work		Yes	
d	Lighting for the living purposes of the bidder at the colony / quarters		Yes	
<b>3.5</b>	<b>Communication facilities for site operations of the bidder</b>			
a	Telephone, fax, internet, intranet, e-mail , etc.		Yes	
<b>3.6</b>	<b>Demobilization of all the above facilities</b>		Yes	
<b>3.7</b>	<b>Erection Facilities</b>			
3.7.1	Engineering works for construction:			
a	Providing the erection/constructions drawings for all the scope/equipment covered under this scope		Yes	
b	Drawings for construction methods		Yes	In consultation with BHEL
c	As-built drawings where ever deviations observed and executed and also based on the decisions taken at site		Yes	Changes are to be marked in drawing & handover to BHEL on completion of work.
d	Preparation of site execution schedules and other input requirements as per Form-14.	Yes	Yes	In consultation with BHEL

Sl. No	Description  PART I	Scope		Remarks
		BHEL	Bidder	
e	Review of performance and revision of site execution schedules in order to achieve the end dates and other commitments	Yes	Yes	In consultation with BHEL
f	Weekly construction / erection schedules based on Sl. No. d		Yes	In consultation with BHEL
g	Daily work plan based on Sl. No. d		Yes	In consultation with BHEL
h	Periodic visit of the senior official of the bidder to site to review the progress so that works is completed as per schedule. It is suggested this review by the senior official of the bidder should be done once in every two months.		Yes	

<b>3.8</b>	<b>Land/Open Space:</b>
<b>3.8.1</b>	Availability of land within plant boundary is very limited and the contractor has to plan and use the existing land considering the use of land by other Civil /mechanical/ electrical contractors and the storage of plant machineries and materials. The existing land shall be shared by all erections agencies. BHEL shall provide free of charge limited open space inside or outside the proposed plant boundary for office, storage shed and laydown area as and where made available by Customer. It is the responsibility of the contractor to construct sheds, fabrication yard, establish batching pant, provide all utilities and dismantle and clear the site after completion of work or as and when required, as a part of his scope of work.
<b>3.8.2</b>	Contractor shall maintain one centralized store cum bar bending yard at his own cost. Hard surfacing of this yard and all round drain shall be carried out by the contractor at his own cost within the quoted rate. The construction of cement storage sheds for unloading of cement bags, stacking properly in the storage sheds drain shall be carried out by the contractor at his own cost within the quoted rate.
<b>3.8.2</b>	Security of stores & work place shall be in Contractor's scope.
<b>3.8.3</b>	On completion of work, all the temporary buildings, structures, pipe lines, cables etc. shall be dismantled and leveled and all debris shall be removed as per instructions of BHEL by the contractor at his cost. In the event of his failure to do so, the expenditure towards clearance of the same will be recovered from the contractor. The decision of BHEL Engineer in this regard is final.
<b>3.9</b>	<b>Labour and Staff Colony:</b> <b>Following are in the Bidder's scope of work for labour &amp; staff colony:</b>
<b>3.9.1</b>	BHEL shall not provide any space or residential accommodation to the contractor for his staff or labour and the contractor has to make his own arrangements at his cost. Labour colony is to be developed by bidder for all the labourers required to be deployed for the works. Bidder has to identify the land for labour colony at their cost and no land will be given by BHEL for labour colony purpose. The contractor to develop/ construct labour colony/ hutment fulfilling the minimum requirements as

**AMIT  
MEENA**

Digitally signed by AMIT MEENA  
DN: cn=AMIT MEENA, o=BHEL,  
ou=PEM,  
email=amitmeena@bhel.in, c=IN  
Date: 2024.08.05 16:28:59 +05'30'

	<p>specified in the “HSE Plan for Site Operations by Subcontractors” enclosed along with this tender as well as meeting the statutory norms.</p> <p>Ownership of the labour hutment shall be of the contractor and contractor shall keep BHEL indemnified from any statutory obligations/ legal compliances w.r.t. labour hutment establishment during as well as after the completion of contract.</p>
<b>3.9.2</b>	Land for labor colony shall be arranged by Contractor at their own cost as per availability outside project area. Necessary levelling/ dressing of land shall be done by the contractor. All arrangement for electricity and drinking/service water to be arranged by the contractor within his quoted price. The contractor shall provide adequate water arrangement for drinking/ washing/ bathing with required toilets, drainage system, and electrification etc. in labour colony at his own cost.
<b>3.9.3</b>	Development of Bidder's temporary staff colony and labour colony having adequate no. of rest rooms along with toilets & fencing etc.
<b>3.9.4</b>	All Civil and Structural work associated with drinking and service water for Bidder's labour and other personnel at the work site/colony/offices including pump houses, pipes, overhead tank, tube wells etc.
<b>3.9.5</b>	Providing and maintaining facilities for safety, welfare, drinking water and sanitation, hygiene, biennial health check-up etc. for construction workers at their workplaces as well as at labour & staff colonies.
<b>3.9.6</b>	Development and maintenance of above facilities for construction workers deployed by the Contractor shall solely rest with the Contractor.
<b>3.10</b>	<p>Installation of necessary amenities- and temporary infrastructure for construction activities at Project site locations.</p> <p>Following are the minimum amenities to be provided by the bidder within the quoted price including removal/disposal of the same in environment friendly manner after its intended use/completion of scope of work:</p> <ul style="list-style-type: none"> <li>i. Labour rest sheds near work spot.</li> <li>ii. Canteen facility creation.</li> <li>iii. Drinking water facility.</li> <li>iv. Labour Bio toilets near work spot in sufficient nos. with regular cleaning &amp; maintenance arrangement.</li> <li>v. Labour colony should have all hygienic condition, dining hall, toilets, proper sewerage system, good drinking water arrangements.</li> </ul>
<b>3.11</b>	<b>Construction Power:</b>
<b>3.11.1</b>	Construction power (three phase, 415V/440V) will be provided to the contractor on chargeable basis at one single point by BHEL. The contractor shall make his own arrangement for further distribution with necessary isolator/LCB etc.

**AMIT  
MEENA**

Digitally signed by AMIT  
MEENA  
DN: cn=AMIT MEENA,  
o=BHEL, ou=PEM,  
email=amitmeena@bhel  
.in, c=IN  
Date: 2024.08.05  
16:29:13 +05'30'

<b>3.11.2</b>	In general, Construction power will be provided to the contractor on chargeable basis at one single point. However, based on request of Contractor and requirement of project, BHEL Site in charge, at his discretion, may provide construction power at multiple point, if feasible. If, BHEL provides electricity at more than one point, it will be responsibility of the contractor to provide all the support necessary for enabling BHEL for extending such provision to contractor.
<b>3.11.3</b>	Contractor to note that BHEL shall complete the arrangements for Construction Power Supply after about nine months from the commencement of contract period. However, in the meantime, BHEL will also make alternate temporary arrangements to provide Construction Power Supply to contractor.  Till such arrangement is made by BHEL, the contractor should make his own arrangement for alternative source of power supply through deployment of adequate number of DG sets/usage of diesel operated machines, at their cost. No separate payment shall be applicable for this.
<b>3.11.4</b>	Further, as there are bound to be interruptions in regular power supply, power cut/load shedding as in any construction sites, contractor should make his own arrangement for alternative source of power supply through deployment of adequate number of DG sets/usage of diesel operated machines, at their cost during the power breakdown /failure to get urgent and important work to go on without interruptions. No separate payment shall be made for any contingency arrangement made by contractor, due to delay / failure in providing electricity.
<b>3.11.5</b>	The Construction Power consumed by the contractor shall be chargeable based on prevalent rate of DISCOM (OERC guidelines). The existing rates are provided below:  Demand Charge: Rs.250/KVA/ Month  Energy Charge: For Load Factor $\leq 60\%$ : 585.00 Paise/kVAh For Load Factor $> 60\%$ : 475.00 Paise/kVAh
<b>3.11.6</b>	The above rates are indicative only. This rate may vary from time to time and the prevailing rates during execution shall be applicable.
<b>3.11.7</b>	Any duty, deposit involved in getting the Electricity shall be borne by the bidder.
<b>3.11.8</b>	The contractor has to Provide necessary meter for measuring the power consumption. In case of any dispute, BHEL engineer's decision shall be final and binding on contractor. The meter used by the contractors shall be duly calibrated.
<b>3.11.9</b>	Necessary "Capacitor Banks" to improve the Power factor to a minimum of 0.9 shall be provided by the contractor at his cost. On account of the contractor's failure in maintaining the power factor as required by customer, penalty if any, levied by customer will be recovered from contractor's bills.
<b>3.11.10</b>	The contractor shall make his own arrangement for further distribution of power, taking due care of surrounding construction activities like movement of cranes & vehicles, civil work, fabrication/construction/assembly/ erection etc. and safety of personnel. Sometimes it may become necessary to relocate some of the installations to facilitate work by other agencies or by him.  Distribution of supply shall be done by the contractor using underground cables. The contractor shall be responsible to provide complete LT distribution with Fuseless system including the supply of all materials like cables, necessary isolators/LCB, Switch boards, industrial receptacles/sockets, pipes,

**AMIT  
MEENA**

Digitally signed by AMIT MEENA  
DN: cn=AMIT MEENA, o=BHEL,  
ou=PEM,  
email=amitmeena@bhel.in, c=IN  
Date: 2024.08.05 16:29:26  
+05'30'



	<p>etc. observing the safety rules laid down by electrical authority of the State / BHEL / their customer with appropriate statutory requirements.</p> <p>All cables being used for construction power shall be armoured only. Buried cable shall be suitably identified by the route markers.</p>
<b>3.11.11</b>	BHEL is not responsible for any loss or damage to the contractor's equipment as a result of variations in voltage / frequency or interruptions in power supply.
<b>3.11.12</b>	Contractor has to make their own arrangements for electricity requirement for labour colony at his own cost.
<b>3.12</b>	<b>Construction water:</b>
<b>3.12.1</b>	Construction Water (Raw water) required for site requirements shall be drawn from the Bhedan river at a point identified by Contractor and approved by BHEL Engineer in charge. The required pumps & accessories, pipes for drawing water from the given point and for further distribution shall be arranged by the contractor at their cost to ensure supply of water without interruptions. No extra payment shall be made under this account.
<b>3.12.2</b>	The Contractor should make arrangements for storage of sufficient quantity of water required for work. The agency should also construct sumps (if required) of suitable size for storage of construction water as per their requirement for use for execution and construction purposes.
<b>3.12.3</b>	Contractor to satisfy himself that the water drawn by him is fit for construction/ consumption and adequately treat such water at his cost when it is not found fit for the said purposes.
<b>3.12.4</b>	In case of non-availability of water, the contractor shall make his own arrangements of water suitable for construction purpose to have uninterrupted work. No separate payment shall be made for any contingency arrangement made by contractor.
<b>3.12.5</b>	BHEL shall establish pumping system for drawing water from Bhedan river for Construction purposes. On establishment of the system, Contractor shall draw water from BHEL's single point source for water supply. All Necessary pumps & accessories, pipes for drawing water from the given point and for further distribution shall be arranged by the contractor only at their cost.
<b>3.13</b>	<b>RECORDS TO BE MAINTAINED AT SITE</b>
<b>3.13.1</b>	Record of Quantity of free/Chargeable items issued by BHEL must be maintained during contract execution. Also reconciliation statement to be prepared at regular intervals

**AMIT  
MEENA**

Digitally signed by  
AMIT MEENA  
DN: cn=AMIT MEENA,  
o=BHEL, ou=PEM,  
email=amitmeena@bhel.in, c=IN  
Date: 2024.08.05  
16:29:38 +05'30'

<b>3.13.2</b>	<p>The below mentioned Records/ Log-books/ Registers applicable to be maintained.</p> <ol style="list-style-type: none"> <li>1. Hindrance Register.</li> <li>2. Site Order Book.</li> <li>3. Test Check of measurements.</li> <li>4. Steel &amp; Cement Supply and Consumption Daily Register</li> <li>5. Records of Test reports of Field tests.</li> <li>6. Records of manufacture's test certificates.</li> <li>7. Records of disposal of soil/ rock generated during and after the work completion.</li> <li>8. Records of disposal of scraps generated during and after the work completion.</li> <li>9. List of T&amp;Ps and MMEs</li> </ol>
---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**AMIT**  
**MEENA**

Digitally signed by  
 AMIT MEENA  
 DN: cn=AMIT MEENA,  
 o=BHEL, ou=PEM,  
 email=amitmeena@b  
 hel.in, c=IN  
 Date: 2024.08.05  
 16:29:51 +05'30'