



Northern Coalfields Limited  
 (A Govt. of India Enterprise)  
 A Subsidiary of Coal India Ltd  
 Materials Management Department  
 P.O.Singrauli Colliery, Dist.Singrauli(MP) 486889  
 Ph: 07805-266606/256261 Fax: 266388/266640  
 Website : [www.nclcil.in](http://www.nclcil.in) / [www.tenders.gov.in](http://www.tenders.gov.in)

Ref: No. 63614153/115A1162

Date : 04.03.2017

**FORMAL ORDER**

To

<b>M/s. Synergy Power Equipment Private Limited, Road # 17, Jawahar Nagar, Mango, Jamshedpur - 831020 ( Jharkhand)</b>	<b>Vendor Code –S1678 Contact No. 0657 - 2360407 PCC: By Regd. Post Category: SSI</b>
--	---

Dear Sirs,

**Sub: Formal Order for supply of Transformers.**

- Ref : 1.Our Tender Enquiry No. NCL/SGR/MMD/Sec - I/115A1162/145 dated 19-01-2016, opened on 22.02.2016 & Letter No SGR/MMD/Sec-I/115A1162/2925 dated 14/15.12.2016**  
**2. Your Bid ID 87682 dated 19.02.2016 submitted against Tender ID 2016\_NCL\_31021\_1**  
**3. Your Letter Ref no. SPE/NCL/1048/16-17 dated 31.12.2016**  
**4. Your Letter Ref no. SPE/NCL/1116/16-17 dated 25.01.2017**

With reference to the above, we hereby place our formal Supply Order on you for supply of **Synergy Make** Transformers which shall be governed by the specifications, prices, terms and conditions mentioned hereunder and also unless otherwise specified as per “General Terms and Conditions of Supply of Stores “ of the NIT :-

Item Sl. No.	Item Description	Qty. (No.)	Unit Basic Price (Rs)	Extended value (Rs)
1	Power Transformer 1.5 MVA,33/11 KV DY 11	01	787000.00	787000.00
2	Distribution Transformer of 160KVA, 6.6 KV/415V DY 11	04	148000.00	592000.00
Total (In Rs)				13,79,000.00

**(Rupees Thirteen Lakhs Seventy Nine only)****(Detailed Technical Specifications as per Annexure – I , enclosed)**

## **TERMS & CONDITIONS**

**1. BASIS OF PRICE :** The above Prices are inclusive of Packing , Forwarding, etc. on FOR Destination basis for which Freight Charges & Transit Risk Insurance Charges shall be paid extra as indicated in the subsequent clause no. 4 & 5 respectively. The prices shall remain firm till completion of supplies.

**2. EXCISE DUTY :** Excise Duty shall be paid extra at actuals against documentary evidence at the legally applicable rate at the time of supply, which is presently applicable @ 12.5%.

**For availing CENVAT Credit by NCL, you shall submit copy of CENVATABLE EXCISE Invoice as per rule 11 of CENTRAL EXCISE Rule 2002 at the time of supply of material along with the final bill(s) indicating therein Northern Coalfields Limited's ECC No, Range, Division and Commissionerate along with other details as detailed below:**

<b>Clean Energy Cess Regn. No./ Excise Regn.</b>	<b>Range</b>	<b>Division</b>	<b>Commissionerate</b>
<b>AABCN4884HEM011</b>	<b>Waidhan II</b>	<b>Rewa</b>	<b>Jabalpur</b>

**You have to submit your Auditor's certificate along with the bill confirming that refund/ credit if any obtained against Excise Duty has been/ shall be passed on to Northern Coalfields Ltd.**

**3. SALES TAX:** Central Sale tax shall be paid extra at actuals, as legally leviable at the time of supply which is presently applicable @ 2% against Form "C"

**4. FREIGHT CHARGES :** Payable extra at actuals but not exceeding Rs.40000.00 per unit for item sl. no. 1 and Rs.12500.00 per unit for item sl. no.2 for delivery of material on F.O.R destination basis

**5. TRANSIT RISK INSURANCE CHARGES:** Payable extra at actuals but not exceeding Rs.2357.71 per unit for item sl. no. 1 and Rs.455.83 per unit for item sl. no.2 for delivery of material on F.O.R destination basis

**6. ENTRY TAX:** Shall be paid extra at actuals to M.P. Government Authority directly by NCL which is presently applicable @ 1 %.

**If there be any statutory increase in the rates of Taxes & Duties during the extended Delivery period (beyond stipulated Delivery period), NCL shall not pay the increase in the Taxes & Duties and shall be borne by you and in case there is any decrease, the same shall be passed on to NCL.**

**7. CONSIGNEE:** The Depot Officer, Central Stores, Northern Coalfields Limited, P.O. Jayant, Dist. Singrauli – 486890 (MP).

**8. PAYING AUTHORITY :** The Area Finance Manager(HQ), Northern Coalfields Limited, P.O. Singrauli, Dist. Singrauli (MP - 486889).

**9. DELIVERY PERIOD:** Within 180 days from the date of this Supply order. Date of receipt of Stores at consignee premises will be taken as the date of delivery. No materials should be supplied beyond the specified delivery period unless amendment

for extension of delivery period is obtained from the purchaser i.e. NCL. However, early delivery is preferred.

**10. PAYMENT TERMS:** 100% payment shall be released within 21 days of receipt and acceptance of materials at site or submission of bills complete in all respect, whichever is later. The payment will be made through Electronic Fund Transfer (EFT) or e-payment after receipt and acceptance of Performance Bank Guarantee.

**11. BANKER'S NAME :** Bank of India, Sakchi Branch, New Planning Area, Sakchi, Jamshedpur, East Singhbhum, A/c No. 450430100030003, IFSC Code – BKID0004504, Type of A/c – Cash Credit.

**12. INSPECTION :** Final inspection of materials shall be carried out by the authorized representative of GM(E&M) /NCL HQ after receipt of materials at consignee's end. The stores found defective or not in accordance with the supply order specification will be rejected and intimated for free replacement within 30 (thirty) days from the date of intimation.

**13. SECURITY DEPOSIT:** You are advised to submit security money for Rs 1,69,335.00 (Rupees One Lakh Sixty Nine Thousand Three Hundred Thirty Five only) within 15 days from the date of receipt of Supply Order. The security deposit should be submitted in the form of Bank Demand Draft payable at SBI, Morwa Branch (Code 3767), Singrauli, MP /or at any bank located at Morwa, Singrauli, MP / or in the form of Bank Guarantee drawn on any nationalized bank / Scheduled Bank in a prescribed Format (i.e. as per Annexure J of NIT) The validity of BG for security deposit will be for a period of three months beyond the expiry of delivery period. If you fail to deposit the security deposit within 15 (fifteen) days from the date of receipt of order, the order shall be cancelled and the case shall be processed to order elsewhere and your performance shall be kept recorded for future dealings. The security deposit shall be refunded within thirty days of satisfactory execution of the contract on your request. For contractual failure, the security money shall be forfeited.

**14.PERFORMANCE BANK GUARANTEE:** The Performance Bank Guarantee is to be submitted by you for Rs 1,69,335.00 (Rupees One Lakh Sixty Nine Thousand Three Hundred Thirty Five only) to cover both satisfactory performance and warranty. The performance guarantee will be taken in the form of a Bank Guarantee in prescribed format as per Annexure-K of NIT valid for 18 months from the date of receipt and acceptance of the materials at consignee's end and the same shall be either released, if no claim is pending or extended thereafter, as deemed fit. In case, the security money has been submitted in the form of Bank Guarantee, the same may be converted in to performance bank guarantee provided the validity is 18 months from the date of receipt and acceptance of materials at consignee's end.

**15. SUBMISSION OF BILLS:** 100% bill with taxes & duties stamped and pre-receipted shall be submitted in triplicate to the Paying Authority with the following documents:

- (i) Receipted Challan
- (ii) Guarantee/Warranty Certificate
- (iii) Maker's Test-cum-Inspection Certificate
- (iv) Any other document required as per order duly authenticated

A set of above documents should also be submitted to the consignee.

**16. PACKING** : Consignment should be securely packed & marked as per standard Trade practices/BIS Norms to withstand the rigors of transport to prevent any loss/damage or pilferage in transit and ensure safe arrival at destination. Packing of materials should conform to the requirement of Carriers. Safe arrival of materials at the consignee's site shall be sole responsibility of the supplier.

**17. MODE OF DESPATCH & ROAD PERMIT** : By Road transport only on Door Delivery basis at your risk and cost. Safe arrival of material at consignee's end will be responsibility of the supplier. In MP no road permit is required as per present rules as NCL is a PSU.

**18. LOWEST PRICE CERTIFICATE**: You shall submit a certificate on the body of each bill stating that "the price charged by us against this contract is the lowest and is the same as applicable to other Government departments / Undertakings/CIL and its subsidiaries./ Other Organisations and are not higher than the rates quoted/ Prices charged by us for same items to other customers"

**19. LIQUIDATED DAMAGE CLAUSE**: In the event of failure to deliver or dispatch the stores within the stipulated date/period in accordance with the specifications mentioned in the supply order and in the event of breach of any of the terms & conditions mentioned in the supply order, NCL should have the right :

a. To recover from the successful tenderer as agreed liquidated damages, a sum of 0.5% (half percent) of the price of any stores which the successful tenderer has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10% (ten percent). Where felt necessary the limit of 10 % can be increased to 15 % at the sole discretion of GM(MM)/HOD/NCL HQ.

b. Or to purchase elsewhere after due notice to the successful tenderer on the account and at the risk of the defaulting supplier the stores not supplied or others of similar description without canceling the supply order in respect of the consignment not yet due for supply or

c. To cancel the supply order or a portion thereof and if so desired to purchase the stores at the risk and cost of the defaulting supplier and also

d. To extend the period of delivery with or without penalty as may be considered fit and proper the penalty, if imposed shall not be more than agreed liquidated damage referred to in clause(a) above,

e. To forfeit the security deposit fully or partly

f. Whenever under this contract, a sum of money is recoverable from and payable to the suppliers, NCL shall be entitled to recover such sum by appropriating in part or in whole for deducting any sum or at any time thereafter may become due to the successful tenderer in this or any contract should this sum be not sufficient to cover the full amount recoverable, the successful tenderer shall pay NCL on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.

**20. RISK PURCHASE**: In the event of failure of supplier to deliver or dispatch the stores within the stipulated date / period of the supply order, or in the event of breach of any of the terms and conditions mentioned in the supply order, Northern Coalfields Limited have the right to purchase the stores from elsewhere after due notice to the defaulting supplier at the risk and cost of the defaulting supplier. It is mentioned

clearly that in the event of failure of the supplier as detailed above, the cost as per risk purchase exercise may be recovered from the bills against any other supplies pending at NCL and also in any other Subsidiary Company/Coal India Ltd.

**21. PRICE FALL CLAUSE:** The price charged for the stores supplied against this order by you shall in no event exceed the lowest price at which you sell or offer to sell the stores of identical description to any other organization during the period of contract.

If the supplier at any time during the period of contract reduces the sale price, sells or offers to sell such stores to any other organization at a price lower than the priced chargeable under this contract, the supplier shall forthwith notify such reduction of sale price to the undersigned and the price payable under the contract for stores supplied after the date of coming in force of such reduction in sale price shall stand correspondingly reduced.

**22. WARRANTY/GUARANTEE:** The supplier shall give a warranty/guarantee for satisfactory performance of the supplied materials for a period of 12 months from the date of installation or 18 months from the date of receipt and acceptance of material at consignee's end whichever is earlier. The supplier shall be responsible for any defect that may develop, under the conditions provided for by the contract and under proper use, arising from faulty materials, design, quality or workmanship and shall remedy such defect at his own cost when called upon to do so. If it becomes so necessary for the supplier to replace or renew any defective part, such replacement or renewal shall be made by the supplier 100% free of cost without any extra cost to Northern Coalfields Limited. The new goods should be supplied on FOR destination basis free of cost.

Warranty replacement should be completed within a reasonable period maximum within one month from the date of claim up to ultimate Consignee's end. All cases of warranty replacements will be decided on the basis of joint inspection of the failed goods held between the user's representative and the supplier's representative.

The supplier shall warrant that the item(s) supplied under this contract / supply order:

- (a) Is new, unused and of current design not likely to be discontinued or become obsolete in near future.
- (b) Is in accordance with the Contract Specifications
- (c) Shall have no defects arising out of design, materials and workmanship.

**23. IDENTIFICATION OF MARK:** The word "NCL" along with manufacturer's distinctive identification mark / symbol as also the part no. must be clearly embossed / punched / engraved on each and every item, as far as practicable, at a visible place, which is not subjected to normal wear and tear, for convenience of identification any time. Apart from this a tag may be attached to each part / item giving identification mark, part no. description. However, for higher precision items where embossing/engraving/punching is not possible, identification mark be put by Metal Marker.

**24. JURISDICTION OF COURT :** All disputes are subject to jurisdiction of "Singrauli Court" only.

Apart from the above terms & conditions, this Supply Order order will also be governed by the "General Terms & Conditions of Supply of Stores" enclosed with the

NIT and all the terms & conditions of NIT as well as Provisions of CIL Purchase Manual unless otherwise specified in this Supply Order.

The contract is concluded with this acceptance. You are requested to kindly acknowledge receipt and acceptance of order within 10 days from the date of issue of order. In case, no reply is received within the above period, it will be presumed that the order has been accepted by you without any precondition.

**Encl.** Annexure – I (Technical specifications)

Yours faithfully,  
For and on behalf of Northern Coalfields Limited,

( Prateek Singh)  
Asst. Manager(X/MM)

(D Dhanabalan)  
Sr. Manager(MM)

**Copy to:**

1. CVO, NCL (HQ)
2. Sr. Officer (Sectl) to Dir (T/Oprns), NCL(HQ), Singrauli
2. GM(E&M)/GM(Stores)/GM(Fin)I/C-- NCL(HQ), Singrauli
3. GM(MM): CIL/ECL/BCCL/CCL/WCL/SECL/MCL
4. GM – Nigahi / Amlohri project
5. The Depot Officer, Central Stores, Northern Coalfields Limited, P.O. Jayant, Dist. Singrauli – 486890 (MP) .
6. The Area Finance Manager(HQ), Northern Coalfields Limited, P.O. Singrauli, Dist. Singrauli (MP - 486889).

This is issued against Sanction Letter No NCL/SGR/E&M/Sanction/2015/579 dated 23.07.2015, & NCL/SGR/E&M/Sanction/2015/1013 dated 13.12.2015 against Indent no. AML/E&M/COLONY/P&M/Indent/15-16/37 dated 15.09.2015 and Indent Regn No. 115A1162 dated. 19/01/2016 and following BC & FC Nos.:-

1. BC No.NCL/HQ/C&B/Capital/Other P&M E&M/2017-18/02 dated 02.03.2017 for Rs.16,93,349.37
2. FC No. NCL/HQ/FC/2017-18/Capital/Other P&M E&M/02 dated 02.03.2017 for Rs.16,93,349.37

( Prateek Singh)  
Asst. Manager(X/MM)

(D Dhanabalan)  
Sr. Manager(MM)

## Annexure – I

## TECHNICAL SPECIFICATIONS

Item no.	Description of items	Technical specification parameter	Remarks
1	Power Transformer 1.5 MVA, 33/11KV DY 11.	<b>2.1</b> The Transformer should comply to the following technical requirement as given below:-	
		<b>2.2 GENERAL</b>	
		2.3 Make of Transformer to be submitted along-with the technical literature.	
		2.4 Out door type	
		2.5 Core type double wound copper winding.	
		2.6 Relevant IS:2026-1977	
		2.7 Rating : 1.5 MVA	
		2.8 Cooling: ONAN	
		2.9 Voltage Ratio 33 KV/11 KV	
		2.10 Frequency : 50 Hz.	
		2.11 Vector Group: DY-11.	
		2.12 Connection: HT/LT-Delta/Star.	
		2.13 Off load externally operated tap changer with locking arrangement.	
		2.14 Tapping on HT: 0, +/- 2.5%, +/- 5%, +/- 7.5%, +/- 10%.	
		2.15 Ambient Temp.(Max.) : 50 <sup>0</sup> C.	
		2.16 Maximum temp. rise above ambient temp. a) Oil - 45 degree C above ambient (Max.) b) Windings - 50 degree C above ambient (Max.)	
		2.17 The transformer shall be designed to over load as permitted in IS:6600 - 1972.	

2.18 Terminal Arrangements: Outdoor type bushing on 33 KV and Out door type cable entry box on 11 KV suitable for PVC double wire armoured cable.	
<b>2.19 FOLLOWING INFORMATIONS TO BE SUBMITTED BY THE BIDDER IN THEIR TECHNICAL OFFER:</b>	
2.20 No load loss at rated voltage & frequency.	2.1 KW
2.21 Load loss at rated current at 75 <sup>0</sup> C in KW.	14 K W
2.22 % Impedance voltage at rated current and frequency in %.	6.25%
2.23 Reactance at rated current & frequency in %.	6.18%
2.24 No load current at rated voltage and frequency in %.	1.5%
2.25 Efficiency at 75 <sup>0</sup> C & unity power factor	
a) Full load in %.	98.94%
b) 3/4 of full load in %.	99.12%
c) 1/2 of full load in %.	99.26%
2.26 Regulation at full load at 75 <sup>0</sup> C and at	
a) U.P.F. in %.	1.12%
b) 0.8 P.F. lagging in %.	4.55%
2.27 Approximate weights	
a) Core and windings	2000 Kg
b) Tank, fittings & accessories	1300Kg
c) Oil in Kg.	900Kg
d) Total weight.	4200 Kg
2.28 Approximate quantity of oil required for first filling.	1100 Litre
2.29 Approximate overall dimension	
a) Length.	2300 mm
b) Width.	2400 mm
c) Height.	2400 mm
<b>2.30 FITTINGS:</b>	
2.31 Oil conservator with filling hole & drain cock.	



		2.32 Oil level indicator with min. marking (flush type).	
		2.33 Dehydrating silica gel breather.	
		2.34 Air Release device.	
		2.35 Explosion vent.	
		2.36 Lifting lugs.	
		2.37 Two earthing terminal with lugs.	
		2.38 Inspection cover.	
		2.39 Drain valve with plug or cover plate.	
		2.40 Valve between conservator and tank.	
		2.41 4 rollers for lateral and longitudinal movements and skids.	
		2.42 Rating plate, terminal marking plate.	
		2.43 First fill of oil as per IS:335-1983.	
		2.44 Bucholz relay double float with a set of contacts for alarm trip. (For transformers 500 KVA and above).	
		2.45 Thermometer pocket for oil with dial type thermometer with max. reading pointer.	
		<b>2.46 SUBMISSION WITH EACH TRANSFORMER</b>	
		2.47 Dimensional drawing. (To be submitted and match marked with supply )	
		2.48 Technical Literature/Leaflets (To be submitted and match marked with supply )	
		2.49 Routine Test shall be carried out for each transformer as per IS:2026.	
		2.50 Manufacturers test certificates as per IS shall be given with the supplies.	
		2.51 Installation, operation & maintenance manual. (To be supplied with transformer.)	
2	Distribution Transformer of 160 KVA, 6.6 KV/415V DY 11.	3.1 The Transformer should comply to the following technical requirement as given below:-	

3.2 Make of Transformer to be submitted along-with the technical literature.	
3.3 Out--oor Type.	
3.4 Core type double wound copper winding.	
3.5 Relevant IS:1180-1989 (Part - I)	
3.6 Rating 160 KVA, 6.6 KV/415 V, 3 Phase	
3.7 Type of Cooling. ONAN	
3.8 Voltage Ratio 6.6 KV/415V Phase to phase.	
3.9 Frequency: 50 Hz.	
3.10 Vector Group: DYn-11.	
3.11 Connection: HT/LT-Delta/Star	
3.12 5 Steps (0, +/- 2.5%, +/- 5%) tapping on Primary	
3.13 Tap changing through externally operated switch with mechanical locking device and a position indicator & arrangement of pad locking.	
3.14 Ambient Temp.(Max.) : 50°C	
3.15 Maximum temp. rise above ambient temp. a) Oil - 45° C above ambient (Max.) b) Windings - 55° C above ambient (Max.)	
3.16 Type of protection IP:55	
3.17 Terminal Arrangements: Outdoor type cable entry box on both sides i.e; primary 6.6 KV and secondary 415 V suitable for PVC double wire armoured cable.	
3.18 Conformity of following Act/Rules. a) Indian Electricity Act/Rules. b) Indian Fire Rules.	
3.19 Routine Test shall be carried out for each transformer as per IS:2026.	
<b>3.20 FOLLOWING INFORMATIONS TO BE SUBMITTED BY THE BIDDER IN THEIR TECHNICAL OFFER:</b>	
3.21 No load loss at rated voltage & frequency	380 Watt
3.22 Load loss at rated current at 75° C.	2800 Watt

3.23 Percentage Impedance at 75° C.	4.5%
3.24 Efficiency at 75° C & unity power factor	
a) Full load in %.	98.05%
b) 3/4 of full load in %.	98.39%
c) 1/2 of full load in %.	98.66%
3.25 Regulation at full load at 75 <sup>0</sup> C and at	
a) U.P.F. in %.	1.83%
b) 0.8 P.F. lagging in %.	3.91%
3.26 Approximate weights of	
a) Core	220 Kg
b) Windings	128Kg
c) Tank, fittings & accessories	190Kg
d) Oil	172Kg
e) <b>Total weight.</b>	750Kg
3.27 Approximate quantity of oil required for first filling.	210 Litre
3.28 Approximate overall dimension	
a) Length	1130 mm
b) Width	1040 mm
c) Height	1430 mm
<b>3.29 FOLLOWING FITTINGS WILL BE PROVIDED FOR EACH TRANSFORMER:</b>	
3.30 Oil level indicator with min marking (flush type).	
3.32 Dehydrating silica gel breather.	
3.33 Lifting lugs.	
3.34 Two earthing terminal with symbol.	
3.35 Drain-cum-sampling valve with plug.	
3.36 Provision of Two Nos. suitebly sized channel under the base of Transformer suitable for fixing to a platform or plinth.	

3.37 Rating and terminal marking plate as per IS:1180 (Part-I)-1989 Cl.20.	
3.38 First fill of oil as per IS:335-1993	
3.39 Thermometer pocket.	
<b>3.40 SUBMISSION WITH EACH TRANSFORMER:</b>	
3.41 Dimensional drawing. (To be submitted with the supply)	
3.42 Manufacturers test certificates as per IS shall be given with the supply.	
3.43 Installation, operation & maintenance manual (to be given with the supply)	

( Prateek Singh)  
Asst. Manager(X/MM)

(D Dhanabalan)  
Sr. Manager(MM)