



आरईसी पावर डिस्ट्रीब्यूशन कम्पनी लिमिटेड
REC POWER DISTRIBUTION COMPANY LIMITED

(A wholly owned subsidiary of REC Ltd., a 'Navratna CPSE' under Ministry of Power, Govt. of India)

CIN No. RECPDCL-U40101DL2007GOI165779

Corporate Office: 4th Floor, KRIBHCO Bhawan, Sector-1, Noida, Gautam Budh Nagar-201301 (UP)
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NOTICE INVITING Rate Contract

(Tender invited through e-Tendering mode only)

For

Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh

No. RECPDCL/TECH/CED/e-Tender/2018-19/ 914 Dated: 31.05.2018

REC Power Distribution Company Limited

A wholly owned subsidiary of REC, a 'Navratna CPSE' Under the Ministry of Power, Govt of India

Corporate office

A10, 4th Floor, Kribhco Bhawan, Sector-1, Noida – 201301, Tele : 0120-4383783,

Website : www.recpdcl.in

Description of task, Pre-qualifying criteria, e-tender submission format and procedure is available on RECPDCL website (www.recpdcl.in), REC website (www.recindia.com), Central Publication Portal (www.eprocure.gov.in)

Important Dates for E- Tendering mode	
Date of Release of NIT	31.05.2018
Last date for queries / seeking clarification	06.06.2018 at 1300 Hours
Pre Bid Meeting	06.06.2018 at 1530 Hours
Last date of submission of Tender	19.06.2018 at 1530 Hours
Date of Opening of Technical bid	19.06.2018 at 1600 Hours
Date of Opening of Financial bid	To be intimated later

Note:

Online registration shall be done on e-tendering website i.e. www.tenderwizard.com/REC & in general, activation of registration may takes 24 hours subject to the submission of all requisite documents required in the process.

**-Sd-
(Salil Kumar)
Addl. CEO**

[This document is meant for the exclusive purpose of Agencies participating against this bid and shall not be transferred, reproduced or otherwise used for purposes other than that for which it is specifically issued]



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SECTION-I

TENDER INFORMATION

Name of the assignment:

Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 kV transmission Line to upcoming 66 kV Grid substation along with associated 66 kV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh

Important information

Si. No.	Event	Information to the agencies
1	Date of Release of NIT	31.05.2018
2	Last date for queries / seeking clarification	06.06.2018 at 1300 Hours
3	Pre Bid Meeting	06.06.2018 at 1530 Hours
4	Last date of submission of Tender	19.06.2018 at 1530 Hours
5	Date of Opening of Technical bid	19.06.2018 at 1600 Hours
6	Date of Opening of Financial bid	To be intimated later
7	Pre- Bid Meeting Address	REC Power Distribution Company Limited, A-10, 4th Floor, Kribhco Bhawan, Sector-1, Noida – 201301 Tele : 0120-4383783
8	Tender Document	The details can be downloaded free of cost from the websites www.recpdcl.in (or) portal.recpdcl.in (or) www.recindia.nic.in (or) www.eprocure.gov.in (or) www.tenderwizard.com/REC
9	EMD #	Rs. 5,60,000/-
10	Estimated Cost of Work	Rs.10.88 Cr.
10	Address for Bid submission	Shri. Salil Kumar, Addl. Chief Executive Officer, REC Power Distribution Company Limited, A-10, 4th Floor, Kribhco Bhawan, Sector-1 Noida - 201301, Uttar Pradesh, India. Email- ced.projects@recpdcl.in
11	Contact Person	Shri Sunil Bisht , Deputy Manager (Technical) REC Power Distribution Company Limited (RECPDCL) Phone:0120-4383759/773 Email- ced.projects@recpdcl.in/sunil.bisht@recpdcl.in

The EMD (Earnest Money Deposit) is to be submitted by all the participating bidders in the form of demand draft/Bank Guarantee of an amount of Rs.5,60,000/- (Rupees Five Lakh sixty Thousand Only) of any schedule Indian bank in favor of REC Power Distribution Company Limited, Payable at New Delhi .The EMD of unsuccessful bidder will be returned within 180 days from the contract and EMD of successful bidder will also be returned after acceptance of work order and submission of PBG (Performance Bank Guarantee) as per Section V, clause 15.

- The bid shall remain valid for a period of 180 days from the last date of bid opening.

SECTION-II

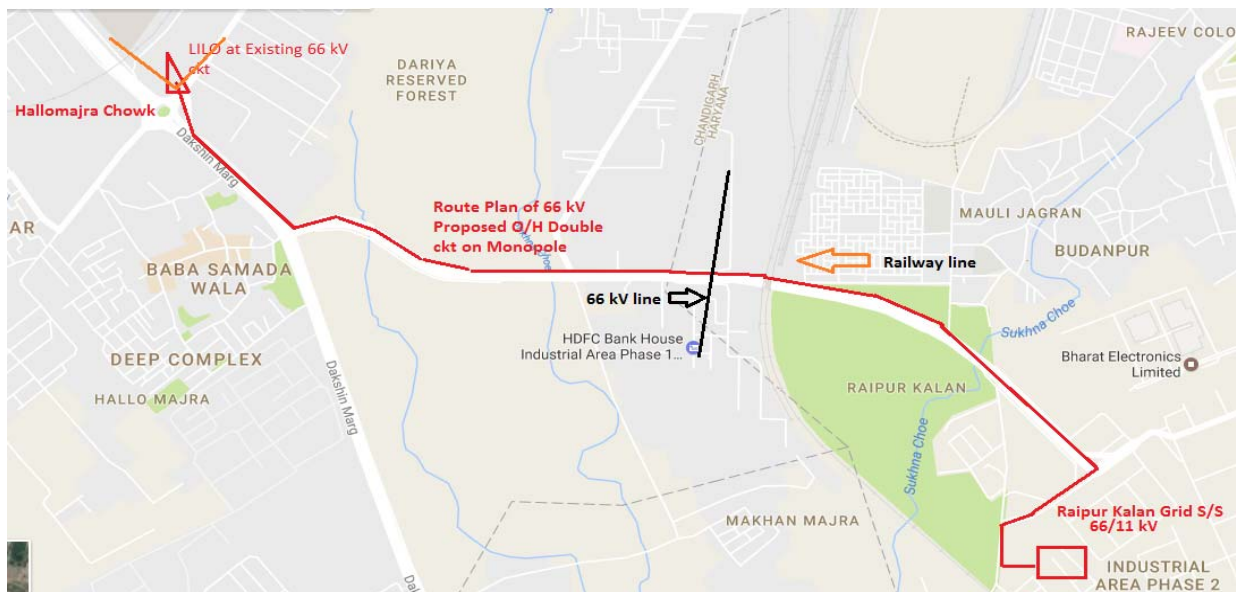
PREFACE

Chandigarh Electricity Department (CED) has recently awarded **Project Management Agency works for Rate Contract Turnkey Execution as deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh to M/s REC Power Distribution Company Limited (RECPDCL) with Tata Power Delhi Distribution Limited as its Technology Partner.**

Chandigarh is a union territory in the northern part of India that serves as the capital of the states of Punjab and Haryana. The Local Distribution of electricity in Chandigarh was taken over by the Chandigarh Administration from the PSEB on 2nd May, 1967. Chandigarh Electricity Department is responsible for Transmission and Distribution of power supply up to consumer’s doorstep for making quality and continuous power supply available to each resident.

This Rate Contract is being floated on behalf of Chandigarh Electricity Department (CED) to appoint Turnkey Execution Agency including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh. The equipment are required to be supplied against release orders which would be placed as and when required. The activities for agency are described in the detailed scope of work.

Figure 1 (Route Plan)



1. Electricity Profile of UT Chandigarh

The electricity profile of Chandigarh, in the year 2014-15 is as under:

1. The peak demand of Chandigarh Electricity Department is around 282 MW, which is being met from different Central/State Generating stations.
2. UT Chandigarh has no generating capacity of its own.
3. At present, the City is receiving 47% of its power through Mohali (PSEB), about 3% through Dhulkote (BBMB) and remaining 50% through Nalagarh.
4. The city has a transmission network which comprises of one no. 220 kV Sub Station at Kishangarh Manimajra, 11 nos. 66 kV Sub Stations and 6 nos. 33 kV Sub Stations.
5. At present the city has approx. 2 Lakh consumers which includes 1,72,653 domestic consumers, 21,428 commercial consumers and about 2,300 industrial consumers.
6. The average power requirement is around 32.49 lac units per day.
7. UT has an allocation of 166 - 236 MW of power from different Central/State Generating Stations during different hours of the day.
8. Per capita consumption is 1168 units per person per annum.
9. Besides this, Chandigarh administration is maintaining 19437 numbers of street light points within sectors roads.

SECTION-III
INSTRUCTIONS TO BIDDERS

3.1 Submission of Bid

Agency shall submit their responses online through e-tendering website www.tenderwizard.com/REC

A. The submission and opening of Bids will be through e-tendering process.

Agency can download Bid document from the RECPDCL web site i.e. <http://www.recpdcl.in> or portal.recpdcl.in or www.recindia.com or eprocure.gov.in and e-tendering regd. link is given in RECPDCL website i.e. www.tenderwizard.com/REC

(Note: To participate in the e-Bid submission, it is mandatory for agency to have user ID & Password. For this purpose, the agency has to register them self with REC PDCL through tender Wizard Website given below. Please also note that the agency has to obtain digital signature token for applying in the Bid. In this connection vendor may also obtain the same from tender Wizard.)

Steps for Registration

- (i) Go to website <http://www.tenderwizard.com/REC>
- (ii) Click the link 'Register Me'
- (iii) Enter the details about the E-tendering as per format
- (iv) Click 'Create Profile'
- (v) E-tender will get confirmation with Login ID and Password
- (vi)

Note- Online registration shall be done on e-tendering website i.e. www.tenderwizard.com/REC & in general, activation of registration may takes 24 hours subject to the submission of all requisite documents required in the process. It is sole responsibility of the bidder to register in advance.

B. Steps for application for Digital Signature from Bid Wizard:

Download the Application Form from the website <http://www.tenderwizard.com/REC> free of cost. Follow the instructions as provided therein. In case of any assistance you may contact RECPDCL officers whose address is given at the Bid.

Bid to be submitted through online mode on website www.tenderwizard.com/REC in the prescribed form.

C. The Agency qualifying the criteria mention in Section VI should upload Bid document with duly signed scanned soft copy of all the annexures & forms mentioned in in this NIT & GCC documents for the prequalifying response:

The Agency qualifying the criteria mention in Section VI should upload Bid document with duly signed scanned soft copy of the documents given below for the prequalifying response:

Pre- Qualifying Criterion Documents/Technical Bid

- 1 Form-I-----Letter of submission of Tender
- 2 Form-II -----Pre-Qualifying Criteria Details
- 3 Form-IV -----Format for No-Deviation Certificate
- 4 Form-V ----- Manufacturer Authorization Form
- 5 Form-VI ----- Format of Curriculum Vitae
- 6 Form-VII ----- Letter of Transmittal
- 7 Form-VIII ----- Format for Integrity Pact
- 8 Annexure-A ----- Performance Bank Guarantee
- 9 Annexure-B ----- Acceptance form for participation in reverse auction event
- 10 Annexure-C ----- EMD Bank Guarantee
- 11 Annexure-D ----- Consortium & OEM Structure
12. Annexure – E -----Consortium Agreement
- 12 Annexure-F ----- e-Reverse Auction guidelines
13. Annexure-G ----- No Demand Certificate
14. Annexure H- ----- Proforma for “indemnification on statutory compliances
15. Annexure I -----Document Indexing
16. EMD of Rs. 5,60,000/- in form of DD or Bank Guarantee may be drawn from a scheduled commercial bank in favour of The “REC Power Distribution Company Ltd”, New Delhi and scanned copy to be uploaded and original to be submitted before the last date & time of Submission of Tender.
17. Documents required in supporting of pre-qualification criteria details.

Financial Bid

1. Form-III-----Financial Proposal (to be submitted through online mode only)

Financial bid to be submitted in the specific format designed same may be downloaded from website www.tenderwizard.com/REC and after filling the form it is to be uploaded through digital signature.

The bidder shall provide the original bid documents in hard copy before the Last date of submission of Tender

- i. EMD
- ii. Integrity pact
- iii. Consortium Agreement, if applicable

All the documents should be addressed to.

Addl. Chief Executive Officer

REC Power Distribution Company Ltd.,
4th Floor, Kribhco Bhawan, A-10, Sector-1 ,
Noida-201301, U.P.

(Note: All papers that comprise the Bid document of the concerned Bid must be numbered. An index of each page should also be provided)

SECTION-IV
SCOPE OF WORK

The brief scope of work covers as under:-

1. Turnkey Execution of complete system (Concept to Commissioning) including Design, Engineering, procurement, inspection, supervision, erection, project management, testing & commissioning and other works incidental thereto.
2. The broad scope of work is as under:
 - a. The route length of the proposed overhead transmission line is 3.5 Ckm (approx.).
 - b. The proposed line shall be on double circuit monopole towers with ACSR Zebra conductor.
 - c. 2 Nos. 66kV Line Bays with all equipment & structures and Metering, Control, Protection & Relay panel at Raipur Kalan Grid Substation.
 - d. Associated civil works like:
 - i. Route survey, soil investigation & pole spotting.
 - ii. Foundation & erection of monopoles.
 - iii. Stringing of conductor & earth wire.
 - e. Terminal points:
 - i. Existing 66kV transmission line tower near Hallomajra Chowk.

DETAILED SCOPE OF WORK

1. 66 kV Double Circuit Transmission line of Route length 3.5 kms on Steel Monopole from T off point near Hallomajra Chowk to Raipur Kalan Grid S/S.
2. Conductor: ACSR Zebra as per requirement.
3. LILO of front side ckt to be done when facing from Main Road for feeding 2 No proposed 66 kV ckts.
4. Total no of Monopole Tower: 28 No. Considering span length of 150 Mtr.
5. Tower stub to be maintained up to desired height keeping in view that the ground level would be raised up to Road level in future.
6. 3 no 11kV O/H line needs to be converted into U/G cable for route length 1300 Mtr from Hallomajra Chowk to next turning point due to low Horizontal clearance issue with proposed 66 kV line.
7. There exists 66 kV double bus bar System at Raipur Kalan Grid S/S.
8. 2 No Line Bays to be proposed at Raipur Kalan Grid S/S.
9. 2 No C/R panels to be installed in Control room.
10. Control cable trench of 50 Mtr to be required.
11. Row to be required from Railway Department for stringing of conductor over Railway Line.
12. Row to be required from 66kV Line owning agency for stringing of conductor over 66 kV O/H line.
13. Row to be required from land owning agency for installation of Monopole Tower.
14. Permissions from road owning agencies & statutory clearances shall be taken by Bidder. However, if required, full support shall be extended by RECPDCL/CED to achieve it. Further, ROW clearance fees shall need to be paid by the bidder and the same shall be reimbursed by RECPDCL/CED on actuals on submission of payment receipts and other documentary proofs of any such payment made against ROW clearance as per satisfaction of RECPDCL/CED.

15. Necessary statutory clearance from respective department of Chandigarh Administration & any other authority for energizing the Cable and Bay shall be in the scope of this tender. However, fees for obtaining necessary statutory clearance need to be pay by the bidder and the same shall be reimbursed by RECPDCL/CED on actuals on submission of payment receipts and other documentary proofs of any such payment made as per satisfaction of RECPDCL/CED.
16. Tree cutting permission to be required from office of Director Environment Dept.
17. Road restoration charges, EI fees shall not be considered in the estimate.
18. Soil testing report of Raipur Kalan Grid S/S has to be submitted by the bidder.

NOTE: The scope of work is not only limited to as mentioned above or in the approved RFP, but also includes any other change/modification/addition necessary for the execution of the contract, as per actual requirement in view of site conditions. Selected Agency will seek prior approval from M/s RECPDCL in case of any change/addition/modification in the work by submitting complete detailed documents.

All the bidders are requested to fill in the GTPs attached as part of this bid document / specification. Bidders to clearly state the deviation from GTPs and specifications with relevant cl. No. / Point No. of the specification in Schedule of Deviations (format attached). Bidders to note that deviation highlighted in the Schedule of Deviation only shall be treated as deviations from specification for all the contractual purposes. In case of no deviation wrt GTP/ specification bidders to submit No Deviation Certificate.

Guaranteed Technical Particulars

All the bidders are requested to fill in the GTPs attached as part of this bid document / specification. Bidders to clearly state the deviation from GTPs and specifications with relevant cl. No. / Point No. of the specification in Schedule of Deviations (format attached). Bidders to note that deviation highlighted in the Schedule of Deviation only shall be treated as deviations from RECPDCL/CED’s specification for all the contractual purposes. In case of no deviation wrt GTP/ specification bidders to submit No Deviation Certificate.

In case any deviation has been mentioned in submitted GTPs but not in Schedule of Deviation, shall not be deemed as deviation from the specification and bidder shall be bound to ensure the RECPDCL/CED’s defined GTP/specs.

In case Bidder has not submitted any schedule of deviation, it will be understood that bidders shall all the specifications / requirements as defined in RECPDCL/CED’s GTP/specifications.

TECHINCAL SPECIFICATIONS

List of equipments for those Technical Specifications are attached is as under. Bidders to furnish the compliance of these technical specifications in totality. For all other items specification shall be as per relevant IS/IEC as approved by RECPDCL.

S. No.	Technical specification for
1	ACSR Zebra Conductor
2	66 KV Outdoor Circuit Breaker
3	66 KV Current Transformer
4	66 KV Potential Transformer
5	66 KV Isolator
6	1.1 KV Control Cable

TECHNICAL SPECIFICATION FOR ACSR Zebra Conductor

This specification provides standard specification for ACSR Zebra Conductor.

APPLICABLE STANDARDS

The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with latest revisions of relevant Indian Standards /IEC and shall conform to the regulations of local statutory authorities.

Sr. No.	Indian Standards	Title				International Standards
1	IS : 209	Specification BS : 3436 for zinc				
2	IS : 398 Part I to V (As relevant)	Specification IEC : 209 for aluminium BS : 215 conductor for (Part-II) overhead Transmission purpose.				
3	IS : 1778	Reels and BS : Conductors	1559	Drums for	Bare	
4	IS : 1521	Method of Ten-ISO / R 89 site testing of steel wire.				
5	IS : 2629	Recommended practice for Hot dip galvanizing of Iron and Steel.				
6	IS : 2633	Method of Testing uniformity of coating of zinc coated articles.				
7	IS : 4826	Galvanized coating quoting on round steel wire.				ASTM A – 472 729 BS : 443
8	IS : 6745	Methods of determination of weight of zinc coating of zinc coated iron and steel articles.				BS : 443
9	IS : 8263	Method of radio Interference tests on high voltage Insulators				IEC:437 NEMA : 107 CISPR
10	IS : 1841	EC grade aluminium rod produced by rolling (Second Revision)				
11	IS : 5484	EC grade aluminium rod produced by continuous casting and rolling (first revision)				

However, in an event where the supplier offers ACSR conductor conforming to standards other than the above, then the salient points of comparison between the standards adopted and the standards quoted herein shall be detailed in relevant schedule with an authenticated English version of such standards referred to.

Climate conditions of the installation	
Max. Ambient Temperature	55°C
Max. Daily average ambient temp.	40°C
Ref. Temperature For Design	50°C

Min Ambient Temp	-4 ⁰ C
Maximum Humidity	100%
Minimum Humidity	10%
Average No. of thunderstorm days per annum	50
Maximum Annual Rainfall	750 mm
Average No. of rainy days per annum	60
Rainy months	June to October
Altitude above MSL not exceeding	300 Meters
Wind Pressure	126 kg/sq m up to an elevation at 10 m
Atmosphere	Atmosphere is generally laden with mild acid and dust suspended during dry months and subjected to fog in cold Months. the design of the equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1 G

GUARANTEED TECHNICAL PARTICULARS FOR ACSR ‘ZEBRA’ CONDUCTOR.

The Guaranteed Technical particulars furnished below shall be duly attested by the Bidder. Any correction / alterations in this GTP will lead to outright rejection of the Bid

Sr. No	Description	Alumunium	Steel
1)	Number Of Strands – Nos.	54	7
2)	Diameter Of Strand – mm.		
	I) Strands		
	o) Nominal	3.18	3.18
	p) Maximum	3.21	3.24
	q) Minimum	3.15	3.12
	II) Overall Of Conductor	28.62	
3)	Cross Sectional Area Of – Sq. mm.		
	e) Whole Conductor	484.5	
	f) Each Strand	7.94	7.94
4)	Laying Of Strands – Nos.		
	h) Center	N.A.	1
	i) First Layer	12	6
	j) Second Layer	18	N.A.
	k) Third Layer	24	N.A.
5)	Weight (Excl. Wt. Of Grease) – Kg / Km.		
	g) Whole Conductor	1621	
	h) Strand (At Nominal Dia.)	21.47	61.95
6)	Calculated D.C. resistance at 20 0C - Ohms / Km		
	g) Whole Conductor	0.06868	N.A.
	h) Strand	3.626	N.A.
7)	Ultimate Tensile Stress – KN		
	g) Whole Conductor		

	h) Strand	130.3	N.A.
	vii) Before Stranding	1.29	10.43
	viii) After Stranding	1.23	9.91
8)	Modulus of Elasticity – d) Kg / Sq. Cm. e)	07036x106	
9)	Coefficient of linear expansion - per deg. C.	19.3x10 ⁻⁶	11.5x10 ⁻⁶
10)	Chemical Composition - %		
	v) EC Grade Al.	99.5	
	w) Copper (Max.)	0.04	N.A N.A.
	x) Carbon	N.A	0.50 – 0.85
	y) Manganese	N.A	0.50 – 1.10
	z) Phosphorous	N.A	Max. 0.035
	aa) Sulphur	N.A	Max. 0.045
	bb) Silicon	N.A	0.10 – 0.35
11)	Grease Make Protectilo – 56 -57 or Rustilo – 442	As per IS 398 (Part – 2) 1996 Neutral Grease between the layers of steel wires only	
12)	Zinc Purity - %	99.95	
13)	Resistivity – Ohms Sq. mm / Mtr.	0.028264	N.A.
14)	Density (At 20°C) – Gm / CuCm.	2.703	7.8
15)	Constant Mass Temp. Co- efficient Of resistance – Per°C	0.004	N.A.
16)	Lay Ratios		
	g) First Layer (o)		
	i) Maximum	17	28
	ii) Minimum	10	13
	h) Second Layer (p)	10	13
	i) Maximum	16	
	ii) Minimum	10	N. A.
	i) Third Layer (q)		
	i) Maximum	14	
	ii) Minimum	10	N. A.
17)	Elongation (Minimum) - % Before stranding	N. A.	4

TECHNICAL SPECIFICATION FOR 66 kV, CIRCUIT BREAKER

This specification provides standard specification for 66 kV, 3 poles SF6 gas filled outdoor circuit breakers.

APPLICABLE STANDARDS

All standards, specifications and codes of practice referred to herein shall be the latest editions including all applicable official amendments and revisions as on date of opening of bid. The following standards and codes shall be applicable: -

S. No.	STANDARDS	DESCRIPTION
1	IS-13118	Specification for high voltage alternating current circuit breaker
2	IS-12063	Degree of protection provided by enclosure for low voltage Switchgear control gear.
3	IS-2099	Bushing for alternating voltage above 1000 volts.
4	IS-12063	Degree of protection provided by enclosure for low voltage Switchgear control gear
5	IS -996	Single phase small AC and Universal Electric Motors.
6	IS-335	Insulating oil for Transformer & Switchgear
7	IS-2147	Degree of protection provided by enclosure for low voltage
8	IS-2544	Porcelain Post Insulator
9	IS-5621	Hollow insulators for use in electrical equipment
10	IS-2629	Recommended practice for hot dip galvanizing of iron and steel
11	IEC 62271-100	High Voltage switchgear& control gear – Alternating Current Circuit Breaker
12	IEC 60736-100	Specification of technical grade Sulphur Hexafluoride(SF6) for use in electrical equipment
13	IS-1554 Part-I 1988	PVC insulated cables up to & including 1100 volts.
14	IS-2208	HRC Cartridge fuses links up to 650 volts.

GENERAL TECHNICAL REQUIREMENT

Sl. No.	Particulars	Standard Specification
1	Type	3
2	Application	Outdoor
3	Highest System voltage	66 kV
4	Rated voltage	72.5 kV
5	Rated Frequency	50 Hz

6	No. of Phases	3
7	Rated normal current	2000 A
8	Rated short circuit withstand current for 3 Sec	31.5 kA (rms)
9	Rated operating sequence	O-0.3 sec-CO-3 min-CO
10	Total break time (max)	60 ms
11	Total close time (max)	60 ms
12	First pole to clear factor	1.5 for terminal fault 1 for short line fault 2.5 for out of phase fault
13	Rated lightning Impulse with Stand voltage	
a.	To earth & between pole	325 kVpeak
b.	Across the isolating distance	375 kVpeak
14	Rated power frequency withstand voltage	
a.	To earth & between pole (Dry test for 1 min.)	140kVrms
b.	Across the isolating distance(dry test for 1 min.)	160 kVrms
c.	To earth & between pole & across the isolating distance (wet test for 10 sec.)	140 kVrms
15	Rated load breaking current	26.3 kArms
16	Percentage DC component	Less than 50 %
17	Rated short circuit making current	66 kA
18	Rated line charging breaking current	10 A rms
19	Rated cable charging breaking current	125 A rms
20	Rated Single capacitor bank breaking current	400 A rms
21	Capacitor bank with series reactor switching capacity	28 .8 MVAR capacitor bank
22	Maximum switching over voltage for cable charging & capacitor bank breaking current	2.5 p.u.
23	Rated supply voltage for control circuit	220 V /110 V /50 V DC
24	Range for satisfactory operation of trip circuit	70 % to 110 %
25	Range for satisfactory operation of closing & other circuit	85 % to 110 %
26	Transient recovery voltage	As per IEC 62271-100
27	No. of auxiliary contact	10 NO & 10 NC
28	Clearance in air	
a.	Between Phases	630 mm
b.	phase to earth	630 mm
29	Min creepage distance of insulator	31 mm/kV



30	Degree of protection	IP-55
31	Operating mechanism	Spring charge by universal Motor
32	Rated voltage for Spring Charging motor	240 V A.C.
33	Minimum vertical clearance of live conductor from ground level	4.6 Mtr.
34	Temperature rise at rated normal current	As per IEC 62271-100
35	Material of main contact	Copper chromium, silver plated

TECHNICAL SPECIFICATION FOR 66 kV, CURRENT TRANSFORMER

This specification provides standard specification for 66 kV, CT.

APPLICABLE STANDARDS

All standards, specifications and codes of practice referred to herein shall be the latest editions including all applicable official amendments and revisions as on date of opening of bid. The following standards and codes shall be applicable:

S. No.	STANDARDS	DESCRIPTION
1	IS-2705	Specification for current transformer.
2	IS-5621	Hollow insulator for use in electrical equipment.
3	IS-9676	Summation current transformer.
4	IS 11332	Method for partial discharge measurement in instrument transformer.
5	IS-2099	High voltage porcelain bushings.
6	IS: 335	New insulating oil.
7	IS - 5561	Specification of electric power connectors.
8	IS – 8603	Dimension for porcelain transformer bushing for use in heavily polluted atmosphere.

GENERAL TECHNICAL REQUIREMENT

Sl. No.	Particulars	Standard Specification
1	Rated voltage	66kV
2	Highest System voltage	72.5kV
3	Rated Frequency	50 Hz
4	Rated primary current	800-400 A
5	Rated lightning impulse withstand voltage	325 kVp
6	Rated power frequency dry withstand voltage	140 KV rms
7	Rated power frequency wet withstand voltage	140 KV rms
8	Transformation ratio (CT Ratio)	800-400/1 A
9	Rated secondary current	1. A
11	Rated continuous thermal current	1.2 Times of primary current
12	Rated dynamic current	2.5 Times of short time thermal current rating
13	Short time thermal current rating for 3 Sec.	31.5 kA



14	core details	Core-1, core-2, Core-3, Core-
a.	accuracy class	PS 0.2 5P20 PS
b.	Rated burden	30 VA 30 VA
g	Purpose	Metering protection Prot.
c.	knee point voltage Min	Grt than 500 Grt than 500
d.	Resistance of secondary winding	Less than 10 Ohm Less than 10
e	Max. exciting current	Less than 30 mA Less than 10
f	Instrument security factor	Less than 5
15	Tan delta Value	Shall be within 0.7 % for new & shall remain less than 1 % for at least 5 years
16	Limits of current (ratio error) & phase displacement for protection core	Ratio error $\pm 1\%$ & phase displacement ± 60 deg
17	Limits of Current error for PS class	Ratio error $\pm 0.25\%$
18	Max. Temp. rise over ambient temp.	55 deg C
19	Minimum creepage for HT Bushing	25mm/kV
20	Gauge of the Tank	3 mm

TECHNICAL SPECIFICATION FOR 66 kV, POTENTIAL TRANSFORMER

This specification covers the standard technical requirements of outdoor type; oil immersed 66 KV Potential Transformer (PT).

APPLICABLE STANDARDS

The equipment covered by this specification shall conform to the requirements stated in latest editions of relevant Indian/ IEC standards and shall conform to the regulations of local statutory authorities.

S. No.	Standard	Description
1	IS: 5	Colour for ready mix paints.
2	IS: 335	New insulating oils for transformer
3	IS: 1554	PVC insulated (Heavy duty) electrical cables for working voltage up to and including 1100 volts.
4	IS: 1570	Stainless and heat resisting steels
5	IS: 1866	Maintenance and supervision of mineral insulating oil in the equipment
6	IS: 2099	Bushing for alternating voltages above 1000 volts
7	IS: 3156	Voltage transformer
8	IS: 5561	Electric power connectors
9	IS: 5621	Hollow insulator for use in electrical equipment
10	IS: 9224	Low voltages fuses
11	IS: 10028	Code of practice for selection, installation and maintenance of transformers
12	IS: 11322	Method of Partial discharge measurement in instrument transformer
13	IEC 60044	Instrument Transformers – Part 2: Inductive Voltage Transformers for use with electrical measuring instruments and electrical protective devices at frequencies from 15 to 100 Hz.

GENERAL TECHNICAL REQUIREMENT

S. No	Particulars	Standard Specifications
1	Highest System voltage	72.5 kV rms
2	Rated voltage	66 kV rms
3	Rated Frequency	50 Hz
4	Rated primary voltage	66KV/ $\sqrt{3}$
5	Rated secondary voltage	110V/ $\sqrt{3}$

6	Rated lightning impulse withstand voltage	325 kV peak	
7	Rated power frequency dry withstand voltage on		
	i. On primary	140 kV rms	
	ii. On Secondary	3 kV rms	
8	Power frequency withstand voltage for one minute – dry & wet	140 kV rms	
9	Rated Transformation ratio	66 kV/ $\sqrt{3}$ /110 v/ $\sqrt{3}$	
10	Core Details	Core - 1	Core - 2
	a) Rated Output	100 VA	100 VA
	b) Purpose	Metering	Protection
	c) Accuracy Class	0.5	3P
11	Winding connection for PT	Star- Star	
12	Rated voltage factor & time	1.2 continuous & 1.5 for 30 Second	
13	Creep-age Distance	25 mm/kV	
14	Creep-age factor (max.)	4	
15	Limit of Voltage Error	$\pm 0.2\%$	
16	Limit of Phase displacement	$\pm 10\%$	
17	Max temp rise over ambient temp	55 deg. C	
18	Gauge of the Tank	3 mm	

TECHNICAL SPECIFICATION FOR 66 kV ISOLATOR

This specification covers the standard technical requirements for 66 KV class Isolators.

APPLICABLE STANDARDS

All standards, specifications and codes of practice referred to herein shall be the latest editions including all applicable official amendments and revisions as on date of opening of bid. The following standards and codes shall be applicable: -

S. No.	STANDARDS	DESCRIPTION
1	IS: 9921	Alternating current isolators (dis-connectors) and earthing Switches for voltage above 1000 V
2	IS: 2544	Specification for Porcelain post insulators for systems with nominal voltage Greater than 1000V

3	IS: 2147	Degree of protection provided by enclosures for low voltage switchgear & control gear.
4	IS: 2544	Specification for Porcelain post insulators for systems with nominal voltage Greater than 1000V
5	IS: 4691	-do-
6	IS: 4759	Hot dip galvanization coating on structural steel
7	IS: 2633	Method of testing weight, thickness and uniformity
8	IS: 1573	Electroplated coating of zinc on iron and steel
9	IS: 6735	Spring washers.
10	IS: 2016	Plain washers.
11	IS: 1771	Electroplated coating of silver and silver alloys for general engineering purpose

GENERAL TECHNICAL REQUIREMENT

Sl.No.	Particulars	Standard Specification
1	Type	Motor operated, central rotating double break with turn & twist mechanism
2	No. of phases	3
3	Services	Outdoor
4	Nominal System Voltage	66 kV
5	Highest System Voltage	72.5 kV
6	Rated frequency	50 Hz
7	Rated continuous current of isolator	1600 A
8	Rated short time withstand current for 3 Sec	31.5 kA
9	Rated peak withstand current	78.75 kA peak
10	System earthing	Solidly Earthed

12	power frequency withstand Voltage	
(i)	To Earth & between pole	140 kVrms
(ii)	Across isolating Switch	160 kVrms
13	Lighting impulse withstand voltage	
(i)	To Earth & between pole	325 kVpeak
(ii)	Across isolating Switch	375 kVpeak
14	Minimum total creepage distance	1810 mm
15	Minimum clearance	
(i)	between phases	630 mm
(ii)	between phases & earth	630 mm
16	Phase to phase spacing adopted in the layout	2000 mm
17	No. of breaks per circuit pole	2 for double
18	Operating mechanism	
(i)	Isolator Type	Manual/ Motor
(ii)	Earth Switch	Manual/ Motor
19	Type of Interlocking	
	Mechanical	Kestle Key
	Electrical	Solenoid
20	Auxiliary Switch	
(i)	Isolator operating mechanism	10 NO + 10 NC
(ii)	Earth Switch	4 NO + 4 NC
21	Current Supply voltage	220 V /110 V
22	Max current density	1.5 A/sq. mm
23	Current rating	10 A, DC
24	Type of main contact	Finger & fist type

25	Material of main switch Contact	
(i)	Material for rotating blade	Electrolytic tinned
(ii)	Material of contact	Silver plated
26	Material of Earth switch Contact	
(i)	Material for rotating blade	Electrolytic tinned
(ii)	Material of contact	Silver plated
27	Torque required to operate each Isolator	500 Nm
28	Rated magnetizing/capacitive current make/break at 0.15 pf	0.7 Arms

TECHNICAL SPECIFICATION FOR 1.1 kV CONTROL CABLE

This specification covers the standard technical requirements for 1.1 kV Control Cable.

APPLICABLE STANDARDS

The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with latest revisions of relevant Indian Standards /IEC and shall conform to the regulations of local statutory authorities.

S. No.	STANDARDS	DESCRIPTION
1.	IS 7098(Part-1)-1988	Specification for Cross-linked polyethylene insulated PVC sheathed Cables Part: 1.
2.	IS 8130-1984	Specification for Conductor for insulated electric cables & flexible cords.
3.	IS 398(Part-IV)-1994	Aluminium conductor for overhead transmission purposes. Part 4- Aluminium alloy stranded conductors.
4.	IS 10418-1982	Specification for Drums for Electric Cables
5.	IS 5831-1984	Specification for PVC insulation and sheath of electric Cables.
6.	IS:3975-1999	Mild steel wires, formed wires and tapes for armoring of cables
7.	IEC-60228:2004	Conductor for insulated cables.
8.	IEC-60502 (Part-1)	Power Cables with extruded insulation and their associated 2005 Voltages from 1KV (Um = 1,2KV) upto 30KV (Um=36KV)
9.	IS-5216	Guide for safety procedures and practices in electric works
10.	IEC-332	Flame Retardant, Characteristics of electric cables.

GENERAL TECHNICAL REQUIREMENT

Sl. No.	Particulars	Standard Specification						
		2 CX6	2 CX10	4 CX10	4 CX16	4 CX25		
1	Core & Size of cable							
1	Voltage grade	1.1 kV						
2	Type of cable	AL conductor, , PVC inner sheath, GI wire armoured						
3	Conductor							
a.	Material & Grade	H2/H4 Grade AL conductor						
b.	No. of core	2	2	4	4	4		
c.	Size (Sq. mm)	6	10	10	16	25		
d	Min No. of wires in each conductor	min no. of strand & dia in each strand shall be such as to satisfy the specified resistance requirement as per IS 8130-1984						
e	Shape of the conductor	Solid Circular						
4	Insulation							
a.	material	Type -A PVC Compound						
b.	Nominal thickness				1 mm			
5	Inner Sheath							
a.	material	Extruded Inner Sheath of Black PVC type ST-2						
b.	min. thickness	0.3 mm Min						
6	Armour							
a.	Material	Galvanised Steel wire						
b.	size	1.4 mm to 2.5 mm						
c.	Type	wire	wire	wire	wire	wire	wire	wire
7	Outer sheath							
a.	Material	Outer Sheath of PVC type ST-1						
b.	Nominal thickness/Dia	1.24 mm Min.						
9	Tolerance on dia	±3 %						
10	Standard length with tolerance	500 ± 5 %						
11	Max. Conductor temp.							
a.	Continuous	90°C						
b.	Short time	250°C						

TECHNICAL SPECIFICATION FOR 66 kV MONOPOLE

< Please refer to the specification of 66 kV monopole attached as Annexure >

GENERAL SCOPE OF WORK

1. Selected Bidder to execute the **work within 6 months** from the date of award of work order.
2. Selected bidder to provide **12 months** “Warranty support” for all equipment’s from date of taking over of complete system specified in the tender.
3. For the maintenance phase, selected bidder to dedicatedly post at-least one (01) support engineer (Diploma in Electrical Engineering with at-least 3 years relevant experience) per circle for resolving field related matters and at-least one (01) dedicated Project – In-charge (B. Tech / B. E. in Electrical Engineering with at-least 5 years relevant experience) during entire warranty period of 12 months.
4. Bidders to provide complete plan for implementation of project.
5. Selected Bidder to setup a Project Management Office in Chandigarh within 30 days from the date of award of work order. This office shall remain operational till the successful completion of this project i.e. Implementation stage (6 Months) and 12 months post take over of the system. All the dedicated resources are to be deployed in Chandigarh for day-to-day coordination with Utility.
6. All supplied items must conform to the detailed technical specifications mentioned in this tender document.
7. Packaging and transportation from the manufacturer’s work to the site including ports and customs clearance will be borne by the bidder.
8. Unloading, Receipt, storage, preservation and conservation of equipment at the site.
9. The Bidder in consultation with RECPDCL Project In-charge and CED Local In-charge shall determine the exact positioning of equipment Installation, housing of equipment.
10. Insurance of all equipment from manufacturer’s site till installation, commissioning, handing over and user acceptance will be borne by the bidder.
11. Maintain the mandatory and recommended (a minimum of 2%) spares during warranty period and provide the list of the same.
12. Install the equipment, obtain CED acceptance and submit a copy of the same to designated authority of RECPDCL.
13. Post completion of installation and commissioning works, the selected bidder shall provide a complete and final location table and spreadsheet indicating all locations including all the relevant information.
14. The Bidder shall be responsible for providing all material, equipment and services specified or otherwise, which are required to fulfil the intent of ensuring operability, maintainability and the reliability of the complete work covered under this specification.
15. It is not the intent to specify all aspects of design and installation of associated systems mentioned herein. The systems, sub-systems and equipment/devices shall conform in all respect to high standards of engineering, design and workmanship, and shall be capable of performing continuous commercial operation.
16. The bidder shall make his own necessary arrangements for the following and for those not listed anywhere else:
 - Office and store.
 - Transportation.



- Boarding & lodging arrangement for their personnel.

17. The supplier shall submit the data sheets for each of the equipment model detailing the specifications of the equipment.

WARRANTY SUPPORT & REQUIREMENTS

The bidder shall be responsible for providing the warranty support support after taking over of system. The scope shall include the following but not limited to the following

- a. Post implementation support and management shall be governed by performance parameters as mentioned in this NIT.
- b. Post implementation shall also cover the new requirement of tools, application, reports etc. of utility.
- c. The bidder shall provide the off-site support of experts also to resolve the issues in shortest time.



TIMELINES FOR DELIVERY AND INSTALLATION

Bidder is required to deliver and install the equipment at the specified locations within stipulated timelines. The overall work needs to be completed within 6 months from the award of contract/release order.

The successful bidder immediately after award of contract is required to start the work of detailed route survey, route alignment and submit the profile to RECPDCL for approval. It is expected that the Contractor will commence the construction activity at sites within 01 month from the date of award of contract and the Poles, conductors and Accessories will start arriving at sites within 2 months after the date of award of contract.

The bidder shall include in his proposal his programme for Planning’s, optimization of route & Gantry locations, erection and stringing conductors covered in the specification. The Programme shall be in the form of a master network illustrating all necessary activities identifying key phases in various areas of the total work like design, procurement, manufacture and field activity under the scope are commissioned within timelines. The contract agreement will be signed within 30 days of issue of letter of Award (LOA). In case, there is delay in signing of contract, the contractual completion period will be counted from the 30th day of issue of letter of award, irrespective of the reason of delay in signing of the contract. Offers, which do not confirm to the requirements of the above time schedule, are liable to be rejected.

Bidder shall submit a detail Gantt chart along with the following implementation schedule. Bidders shall drill down these activities into sub/sub-sub activity in the chart. The chart shall also detail out time and resource effort required to execute each activity. The detailed bar charts for all the work activity shall however, be discussed and agreed to by the successful Bidder with the owner before start of the execution of work.

Sr. No	Activity Name	Start Date	Weekly Plan						End Date
			W1	W2	W3	W4	W5	
1	Resource Mobilization and establishment of site office								
2	System Design, drawings and approval								
3	Material Inspection & MDCC								
4	Material Delivery and Installation & Commissioning								
5	Handing over								
6	Warranty Services (12 months)								

PAYMENT TERMS & CONDITIONS

- A. The bidder shall be required to raise invoices separately for each section of work against price bid quoted in the financial bid format(Form III). The sections of the financial bid is as hereunder:
 - i. Form-1: Cost estimate for Supply, Erection and Commissioning of Steel Monopoles along with Civil work for tower foundation
 - ii. Form-2: Cost estimate for Supply, Stringing, Commissioning, Testing of ACSR Zebra and GSS wire with all hardware and accessories
 - iii. Form-3: Cost Estimates for New 66kV bay in 66/11 kV Grid sub-station

- B. The payment will be made against the item-wise invoices of each section on achieving the milestone laid down in S.No. 3 & S.No 4 of Payment Criteria detailed below.

- C. **Payment Criteria:**
 The payment criteria to be made to the agency on pro-rata basis after achievement of the milestones as explained below:

S. No.	Milestone	Payment
1	1. 10% of the Contract price shall be paid as initial interest bearing advance in two tranches of 5% each, First installment of 5% shall be released on presentation and fulfilment of the following by the bidder:: <ul style="list-style-type: none"> a. Unconditional acceptance of PO/LOI/LOA. b. Unconditional & irrevocable Bank Guarantees with a validity period upto 02 years from the date of LoA in favour of RECPDCL amounting to 110% of total advance amount. c. Unconditional & irrevocable Performance Bank Guarantee (PBG) as per GCC Annexure-A for ten percent (10%) of the total Contract price towards Contract Performance with a validity till completion of 1.5 years period from the date of Operational Acceptance Test and Taking Over of the complete systems. d. In case the contract price quoted is lower by more than 10% of the tender estimated price, the bidder to submit additional PBG of 5% of the total contract price. 2. The bidder must utilize first advance installment of 5% before requesting for second advance installment. Second installment of 5% shall be released on presentation of contractor's invoice and satisfactory utilization certificate supported with documentary evidences of first advance installment.	Interest bearing 10% advance of Contract Price which will be prorata adjusted in each milestone from Sl. No. 2 to Sl. No. 5 till the advance is fully adjusted. (The annual interest rate shall be calculated based on SBI MCLR +2% as applicable from time to time.)
2	Approval of all Engineering and Survey drawing, Quality Plans, Pert Chart, Field Quality Plan, posting of Project Manager, resource mobilization on site and submission of a true copy of 'Erection All Risk Insurance Policy' taken for the awarded jobs.	10% of contract price
3	Against receipt of material at Project site in good condition and	35%**



	certification by RECPDCL along with bills complete in all respects. Payment shall be released based on the Material Dispatch Clearance Certificate (MDCC) and Material Receipt Note(MRN) issued by RECPDCL for materials received at site. The total payment shall not exceed 35% of total price quoted in Form-I, II & III respectively	
4	Against mechanical completion of erection on prorata basis and on monthly basis. Payment shall be released based on the Measurement Book. The total payment shall not exceed 30% of total price quoted in Form-I, II & III respectively	30%**
5	After completion of Operational Acceptance Test and Taking Over of the complete systems specified in the tender, including clearance of Electrical Inspection, compliance of final punch point and after reconciliation & adjustment of payments, if any, towards Quantities of materials issued from purchaser's stock and consumed by the contractor for expeditious completion of the job. The interest bearing mobilization advance will be fully adjusted during the reconciliation process.	95% of reconciled contract price less amount claimed as per Sl. No 1 to 4 above.
6	Upon submission of all Operational & Maintenance Manuals and "As Built drawings" etc. and Completion of 1 year warranty. The payment may be released earlier provided the supplier submits the Bank Guarantee (BG) for an amount equivalent to 5% of contract Price. This BG shall remain valid for a period of 1.5 years from the date of Operational Acceptance Test and Taking Over of the complete systems. The bidder shall also submit 'No Demand Certificate' at the time of receipt of full and final payment.	5% of reconciled contract price
<p>Contract price: Rate on which LoA/Work Order will be awarded to the bidder <i>all-inclusive of GST and other applicable taxes if any.</i></p> <p>**Sl. No. 3 & 4 will be claimed as % of cost quoted in Form-I, Form-II and Form-III of the financial bid separately and item wise.</p> <p>Note: In any case, the reconciled contract price shall not exceed the overall contract price.</p>		

3. Pre-Requisites for Payment

- Bidder should have completed execution of that part of contract, for which payment is sought, to the satisfaction of RECPDCL/CED's Engineer-in-Charge responsible for the contract and obtained certification for execution of the work.
- Bidder has undertaken joint measurement of the work executed along with RECPDCL/CED's Engineer-in-charge.
- Bidder's bills/invoices submitted have been certified by Engineer-In-Charge.

4. Bills & Invoices

Unless specified otherwise in the special conditions of contract, Bidder shall raise not more than one invoice/section per month for the services rendered and the invoice shall be submitted within 15

days of the following month at RECPDCL Corporate office.

All Bills shall be supported by joint measurement of work done, quality test report and a copy of wage sheet, if applicable (showing proof of having disbursed wages as per applicable law) and a copy of statement substantiating that statutory payments having been affected.

Bills/ invoices shall mention contractor's GST Registration No., PAN number as applicable.

Final bill submission after completion of project or execution of job must be within 30 days from the actual date of completion/execution of work awarded.

All invoices/claims shall be raised by the bidder in the name of Chandigarh Electricity Department (CED), Chandigarh (owner) C/o RECPDCL. All the payment shall be released directly to the bidder by RECPDCL within 30 days of submission of invoices on receipt of funds from CED. Further tax will be deducted as per applicable law by RECPDCL from the payment made on behalf of CED.

5. Payments & Statutory Deductions

Payment shall be released within 30 days from the submission of the bills. The bidder shall submit "No Demand Certificate" in the format as per Annexure-G at the time of receipt of full and final payment. In case any non-compliance to contract conditions comes to RECPDCL's notice, RECPDCL will be entitled to deduct 30% of estimated wages plus 20% of wages as RECPDCL's overheads. Bidders would be obliged to provide the copy of monthly wage sheet in any case, failing which no payment shall be made. RECPDCL at their sole discretion may deposit the PF etc. with statutory authorities. RECPDCL will deduct the amounts of TDS as per statutory requirement under the income tax act and the VAT Act and certificates (wherever applicable) will be issued to bidder accordingly.

In case of non-submission of PAN No TDS @ 20% shall be deducted from all payable amounts for which no TDS certificate shall be issued. TDS once deducted as above shall not be revised in any condition.

Statutory Deductions

RECPDCL will deduct the amounts of TDS as per statutory requirement under the income tax act and the DVAT Act and certificates (wherever applicable) will be issued to bidder accordingly.

The Engineer-in-Charge as stated in the Order shall be responsible for certification of the work executed and the bills. Bills (including original) shall be submitted in triplicate at RECPDCL Corporate Office, Noida.

6. Quantity & BoQ Variation

Payment will be made on the basis of actual quantity of supplies/actual measurement of works accepted by RECPDCL and not on the basis of contract quantity. Further, in case of any other BoQ item is to be supplied in addition to the BoQ already mentioned in the bid for successful completion of project, the same may be informed with proper justification to the satisfaction of RECPDCL. RECPDCL may issue amended BoQ in this regard for final reconciliation, if required. However, in any case, the overall contract price shall not exceed the awarded price.

7. Full and Final Payment



Full & Final Payment in all contracts shall be made subject to the bidder submitting “No Demand Certificate” in the format as per Annexure-G.

8. Mode of Payment

Payment shall be made through NEFT/Cheque/RTGS mode for which bidder shall submit the details of Bank Account and other details. Further, for any payments made, RECPDCL is not responsible for any consequences/disputes bidder have among the owners channel partners, sub-Associates and all such dispute/concerns shall be settled solely by the Bidder.

The quantities of items indicated are estimated and preliminary. However, payments shall be made on the basis of actual quantity of work carried out and measured jointly by RECPDCL and the Bidder. Bidders shall be responsible to organize joint measurements of works with RECPDCL Engineer-in-Charge before raising any bill of work done. In the event Bidder fails to do so, RECPDCL at their sole discretion, may take measurements of work done and proceed as deemed fit and in such an event Bidder’s right to lodge any subsequent claim shall stand forfeited.

9. Liquidated Damage:

The completion time of the project shall be monitored as per milestones mentioned above. Any delay in compliance to the milestone timelines shall lead to LD, and shall be deducted from the payments due under the Contract or by invoking the Contract Performance Bank Guarantee and/or otherwise, as per the following Liquidated damage table–

Milestone	Timelines	% age LD on Price
On Completion of works in all respects and Operational acceptance & Taking over of the complete system by RECPDCL and CED Project In-charge.	Within 6 months	Not Applicable
	Beyond 6 months	0.5% of Contract Value (excluding Post Implementation phase Value) per week or part-thereof with maximum 5% of the contract value may be levied from the bill of the contractor.

TAKING DELIVERY AND INSURANCE:

1. The contractor has to keep materials in safe custody and transport to the respective sites and will be fully responsible for any damage to or loss of all materials at any stage during transportation or erection till taking over of the cable line by CED.
2. The Contractor has to open site store and ensure for safe custody of all the stored materials at his own cost.
3. The Contractor shall have total responsibility for the entire materials stored, loose, semi assembled and/or erected by him at site in his custody. The Contractor shall make suitable security arrangements at his own cost to ensure the protection of all materials, equipment and works from theft, fire pilferage and any other damages and loss. It shall be the responsibility of the contractor to arrange for security till the works are finally taken over by the CED.

STORAGE-CUM-INSURANCE

The contractor shall take suitable storage-cum-erection insurance cover at his cost to the extent of 100 % cost of all major materials, which are required to complete the work under scope of contractor. Contractor shall have to take comprehensive insurance policy against any loss, damage, theft, pilferage, fire etc. for the complete period of storage, erection and commissioning up to the time of taking over of installation work by CED. The Contractor shall deal directly and pursue the claim with the Insurance Company and shall be responsible in regard to maintenance of all insurance coverage as well as for settlement of claim. The proof of insurance policy taken by the successful Contractor shall be furnished to Engineer-In-Charge. In absence of the above insurance policy, R.A. Bill payment will be withheld.

In the event of any damage, theft, loss, pilferage, fire etc., Contractor will be responsible to lodge, pursue and settle all the claims with the Insurance Company for all items, materials and the RECPDCL/CED shall be kept informed about it. Contractor shall replace the lost / damaged materials / items promptly irrespective of the settlement of the claims by underwriter and ensure that the work progress is as per agreed schedule. The loss, if any, such replacement will have to be borne by the Contractor and RECPDCL/CED will not entertain any claim / representation in this regard. However it will be contractor's responsibility to insure the entire project till the cable lines are taken over by the CED.

Insurance:

The Contractor at his cost shall arrange, secure and maintain all insurance as may be pertinent to the Works and obligatory in terms of law to protect his interest and interests of the Owner against all perils detailed herein. The form and the limit of such insurance as defined herein together with the underwriter in each case shall be acceptable to the Owner. However, irrespective of such acceptance, the responsibility to maintain adequate insurance coverage at all time during the period of Contract shall be of Contractor alone. The Contractor's failure in this regard shall not relieve him of any of his contractual responsibilities and obligations. The insurance covers to be taken by the Contractor shall be in the joint name of the CED and the Contractor. The Contractor shall, however, be authorized to deal directly with Insurance Company or Companies and shall be responsible in regard to maintenance of all insurance covers. Further the insurance should be in freely convertible currency.

Any loss or damage to the equipment/materials during handling, transportation, storage, erection, putting into satisfactory operation and all activities to be performed till the successful completion of commissioning of the equipment/materials cable line shall be to the account of the Contractor. The Contractor shall be responsible for preference of all claims and make good the damages or loss by way of repairs and/or replacement of the equipment, damaged or lost. The transfer of title shall not in any way relieve the Contractor of the above responsibilities during the period of Contract. The Contractor shall provide the Owner with copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to the Owner immediately after such insurance coverage. The Contractor shall also inform the Owner in writing at least sixty (60) days in advance regarding the expiry/cancellation and/or change in any of such documents and ensure revalidation, renewal etc., as may be necessary well in time.

The perils required to be covered under the insurance shall include, but not be limited to fire and allied risks, miscellaneous accidents (erection risks) workman compensation risks, loss or damage in transit, theft, pilferage, earth quake, riot and strikes and malicious damages, civil commotion, weather conditions, accidents of all kinds, etc. The scope of such insurance shall be adequate to cover the replacement/reinstatement cost of the equipment for all risks up to and including delivery of goods and other costs till the equipment is delivered at Site. The insurance policies to be taken should be on replacement value basis and/or incorporating escalation clause. Notwithstanding the extent of insurance cover and the amount of claim available from the underwriters, the Contractor shall be liable to make good the full replacement/rectification value of all equipment/materials and to ensure their availability as per project requirements.

All costs on account of insurance liabilities covered under the Contract will be on Contractor's account and will be included in Contract Price, However, the Owner may from time to time, during the pendency of the Contract, ask the Contractor in writing to limit the insurance coverage, risks and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in Contract price to the extent of reduced premia amount. The Contractor, while arranging the insurance shall ensure to obtain all discounts on premia, which may be available for higher volume or for reason of financing arrangement of the project.

The clause entitled 'Insurance' covers the insurance requirements for the portion of the works to be performed at the Site.

The completion time of the project shall be monitored as per milestones mentioned above. Any delay in compliance to the milestone timelines shall lead to LD, and shall be deducted from the payments due under the Contract or by invoking the Contract Performance Bank Guarantee and/or otherwise, as per the Liquidated damage table under payment terms.

SECTION-V

GENERAL CONDITIONS OF CONTRACT

1. The bidder must fulfil the above eligibility criteria/pre-qualifying conditions for evaluation of their bids. Bids of bidders should be strictly in manner and mode prescribed hereunder and fulfilling the above eligibility/pre-qualifying conditions will only be evaluated by the duly constituted evaluation committee. Bids of the bidders not being submitted in the manner and mode required hereunder and/or not fulfilling the eligibility/pre-qualifying conditions given above may be summarily rejected at the sole discretion of RECPDCL. Undertaking for subsequent submission of any of the above documents will not be entertained under any circumstances.
2. RECPDCL reserves the right to conduct the reverse auction (if required) for the products/ services being asked in the tender. The terms and conditions for such reverse auction event shall be as per the Acceptance Form attached as GCC Annexure - B of this document. The bidders shall mandatorily submit a duly signed copy of the Acceptance Form along with the tender document as a token of acceptance.
3. RECPDCL reserves the right to verify/confirm all original documents/documentary evidence against the documents/bid submitted by the bidder in support of above mentioned clauses of eligibility criteria, failure to produce the same within the period as and when required and notified in writing by RECPDCL shall result in summarily rejection of the bid.
4. Engagement with RECPDCL does not confer any right to the agencies to be invited for participating in any bids, tender etc. floated by RECPDCL. RECPDCL reserves the right to call bids/assign work/associate the agency/agencies in any area as may be deemed fit by RECPDCL depending upon the profile provided by the agencies and requirement of assignment.
5. RECPDCL reserves the right to accept or reject any or all requests for engagement without assigning any reason or to accept in parts and engage more than one agencies at its sole discretion.
6. Acceptance of the application(s) constitutes no form of commitment on the part of RECPDCL. Furthermore, this acceptance of the application confers neither the right nor an expectation on any application to participate in the proposed project.
7. RECPDCL reserve the right to waive off any shortfalls; accept the whole, accept part of or reject any or all responses to the Tender.
8. RECPDCL reserve the right to call for fresh tenders at any stage and /or time as per the present and /or envisaged RECPDCL requirements even if the tender is in evaluation stage.
9. RECPDCL reserve the right to modify, expand, restrict, scrap, and re-float the tender without assigning any reason for the same.
10. The responder shall bear all costs associated with the preparation and submission of its response, and RECPDCL will in no case be responsible or liable for these costs, regardless of the conduct or the outcome of the tender process.
11. **Quantity may vary within the $\pm 15\%$ of the total project cost (Contract Price). However, the quantities of individual items may vary upto this extent.**
12. Rate contract will be valid for 1 year from the issue of LOA.
13. For all equipment, the bidder shall provide warranty for a period of 12 months from the date of taking over of the system.

14. Sub-contracting of the work is not permitted. In case of minor or field work, sub-contracting shall be permitted subject to RECPDCL prior approval.

15. **Performance Security:** The agency need to deposit within fifteen (15) working days from the date of acceptance of work order, a Performance Security in the form of Bank Guarantee or Demand Draft (DD), for an amount of 10% (Ten per cent) of the Tender value for the due performance and fulfilment of the contract by your firm which is valid for 60 months in the format placed at Annexure – A.

- a The Performance Bank Guarantee may be drawn from a scheduled commercial bank in favour of The “REC Power Distribution Company Ltd”, New Delhi.
- b The Performance Bank Guarantee may be discharged/ returned by the RECPDCL after the completion of the contract upon being satisfied for the performance of the obligations of your firm under the contract.
- c Failing to comply with the above requirement, or failure to enter into contract within 30 days or within such other extended period, as may be decided by the CEO, RECPDCL shall constitute sufficient grounds, among others, if any, for the annulment of the award of the tender.
- d In the event the firm being unable to provide the services, during the engagement period as per the contract for whatever reason, the Performance Bank Guarantee would be invoked by RECPDCL.
- e No Bank Charges/ interest shall be payable for the Performance Bank Guarantee.
- f In case the contract price quoted is lower by more than 10% of the tender estimated price, the bidder to submit additional PBG of 5% of the total contract price.

16. Rates and Prices

- a Bidders should quote item-wise rates/ prices including all taxes and duties as mentioned in Form-III by explicitly mentioning the breakup of basic prices and applicable taxes.
- b Price quoted by bidder shall be firm for entire contract period.
- c Price quoted shall be firm and any variation in rates, prices or terms during validity of the offer shall lead to forfeiture of the EMD of said bidder.
- d The quoted prices shall be for delivery and installation at Chandigarh. The prices shall be FOR destination and shall include all charges, levies and duties for delivery and installation at the specified locations in Chandigarh UT. The exact details of location address etc. shall be provided along with the release order.
- e If it is found that the tax quoted is higher than the applicable GST, in that case only applicable taxes will be paid by RECPDCL and if the tax quoted is lower than the applicable tax, in that case only the quoted taxes will be paid by the RECPDCL and difference shall be on part of bidder.

- f Rate quoted by the bidder shall remain firm & fixed and shall be binding on the Successful Bidder till completion of work irrespective of actual cost of execution of the project.
 - g No escalation in rate quoted by the bidder will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.
 - h The offer must be kept valid for a period of 180 days from the last date of bid submission. No escalation clause would be accepted. The validity can be further extended as per requirement of RECPDCL.
17. In case of default in services or denial of services, RECPDCL, at its sole discretion, will be free to avail services of other service providers at your "Risk & Cost".
18. All other terms and conditions of the GENERAL CONDITIONS OF CONTRACT shall be applicable.
19. Bidders are advised to refrain from taking any deviations on this TENDER. Still in case of any deviations, all such deviations from this tender document shall be set out by the Bidders, Clause by Clause in the format as mentioned in Form IV and submit the same as a part of the Technical Bid. Please note that in case of deviations to the tender terms, bids may be liable for rejection.
20. The equipment related drawings, manuals and other related document to be submitted and will remain the exclusive property of the CED, even after the termination or expiry of the contract. The ownership shall also remain with the CED in case the selected vendor fails to execute tasks to the satisfaction of the CED.
21. All Post implementation support period shall start from the date of Operational Acceptance and taking over of the project Work by RECPDCL/CED.
22. The above mentioned general terms and conditions will be integral part of detailed GCC attached as Annexure-GCC.
23. **INTEGRITY PACT (Form-VIII):-**The bidders have to submit integrity pact as per prescribed format on a non-judicial stamp paper of Rs. 100/- in 2 copies duly signed by the person signing the bid. The bidder shall not change the contents of "Integrity Pact".
24. In a tender either the Indian agent on behalf of the Principle /OEM or Principle / OEM itself can bid but both cannot bid simultaneously for the same item/product.
25. If an agent submits bid on behalf of the principal /OEM, the same agent shall not submit a bid on behalf of another principal /OEM in the same tender for the same item/product.
26. REC Procurement Guidelines shall be followed, wherever not specifically mentioned in the tender. The guidelines is available on the RECPDCL Website.

SECTION-VI

ELIGIBILITY CRITERIA

The qualifying requirement for the bidders shall be as follows:

1. TECHNICAL QUALIFYING REQUIREMENT			
Sr. No	Description	Qualification Criteria	Evaluation/Documents Required
1	Firm/Company Registration	Bidders can be a company incorporated under Companies Act, 1956 or 2013 including any amendment thereto or a Proprietorship Firm registered with competent authorities.	Certificate of Incorporation issued under Indian Companies Act 1956 or 2013 from Registrar of Companies to be submitted and/or firm registration certificate. In addition to above, copy of PAN and GST Certificate should also be submitted.
2	Financial Strength	The minimum average annual financial turnover during the last 3 years ending 31 st March of the previous financial year should be of ₹ 7.6 Crores .	CA certified Annual financial statements, Audited Balance Sheet and P&L Account for the respective financial years to be submitted in this regard
3	Workforce Capability	The Bidder should have at least 5 personnel on its rolls with following criteria: 1. Minimum Qualification (B.E./B. Tech) 2. Min. 03 years of experience in execution of such contracts of comparable nature. 3. 01 Project Manager with 05 years of experience	Signed resume of employees need to be submitted. Scanned signatures shall be accepted
4	"A" class electrical license	The bidder should possess "A" Class license issued by the Electrical inspectorate of Govt. of UT /Central Inspectorial organization of Govt. of India/ other state Govt. In case bid submitted in consortium, any of partner should possess "A" class electrical license as stated.	Copy of "A" class electrical license
5	Experience	The bidder must have successfully laid, erected, tested & commissioned 66 kV or higher voltage class Single/Double Circuit Overhead Transmission Lines on Tubular Monopoles/Lattice structure along with associated transmission line during last 7 years ending last day of month previous to the one in which bids are invited	Client's PO / WO / LOI / LOA / Contract and Certification on client letterhead/Performance certificate and contact details of clients as proof provided for the last 7 years needs to be submitted. Further, PO / WO / LOI / LOA / Contract for 66 kV or above Bay

		<p>should be either of the following:</p> <p>i. Three similar completed works of costing not less than Rs. 4.4Cr each or at least 1.4 Ckm each of route length</p> <p style="text-align: center;">Or</p> <p>ii. Two similar completed works of costing not less than Rs. 5.4Cr each or at least 1.75 Ckm each of route length.</p> <p style="text-align: center;">Or</p> <p>iii. One similar completed works of costing not less than Rs. 8.7Cr or at least 2.8 Ckm each of route length</p> <p>And</p> <p>The bidder (in case of single bidder) / consortium members should have successfully laid, erected, tested & commissioned 66 kV or higher voltage class Bays.</p>	<p>work experience of the bidder can be jointly a part of 66kV line erection or separate work order.</p>
<p>Note: Bids may also be submitted in consortium (having not more than three (03) partners with one partner as lead partner).</p> <ul style="list-style-type: none"> ➤ In case of single bidder, the bidder shall meet all qualifying requirements from Clause 1-5 above. ➤ In case of consortium, the lead partner of the Consortium should possess the eligibility criteria from clause 1 to 4 above except at Clause. no. 5. which can be met jointly by consortium members. 			

SECTION-VII

EVALUATION METHODOLOGY

OPENING OF BID:

The Bidder or his authorized representative may be present at the time of opening of bid on the specified date, but a letter in the form annexed at (Form – I) hereto must be forwarded to this office along with bid and a copy of this letter must be produced in the office by the person attending the opening of bid. Unless this letter is presented by him, he may not be allowed to attend the opening of bid.

In case of unscheduled holiday on the closing/opening day of bid, the next working day will be treated as scheduled prescribed day of closing/opening of bid; the time notified remaining the same.

EVALUATION OF BID

PRE-QUALIFYING CRITERIA

Evaluation and comparison of bids will be done as per provisions of Pre-Qualifying Criteria supporting documents as proof of pre-qualifying criteria at section – VI. RECPDCL reserves the right to verify the site of operation for above activity and list of persons provided as per qualifying criteria and accordingly decide upon meeting the requirement.

The RECPDCL will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order qualifying to which bids shall be summarily rejected.

PRICE EVALUATION CRITERIA

- 1.1 Bidders should quote their rates/prices in Indian Rupees only which shall be inclusive of all applicable taxes, duties, levies, insurance, transportation etc., applicable for entire scope of work as per Price Schedule included to Form - III of this tender document.
- 1.2 Bids shall be evaluated on the basis of the total evaluated value as per the quoted rates for the services mentioned in Scope of Work. The total evaluated price as per the evaluation methodology mentioned as under at Form - III of this tender document and the other details mentioned therein will be the basis for the evaluation purposes and for arriving at inter-se ranking of the various bidders of the tender.
- 1.3 Bid shall be evaluated as per the “Total Price of the Bidder for this tender” as mentioned in Form-III, which shall be filled by the bidder as a Financial Bid.

AWARD CRITERIA

The purchaser will award the contract to the successful bidder whose bid has been determined to be in full conformity to the bid documents and has been determined as the lowest evaluated bid.

COMMERCIAL TERMS & CONDITIONS

A. Taxes and duties

Notwithstanding anything contained herewith, with respect to taxes and duties following clauses shall be applicable:

- A.1. If any supply of goods or services under or in respect of this contract is subject to GST, and if the Contractor is liable to GST in relation to any supply under this contract, the parties agree that the amount of GST applicable on any supply from the bidder to the Employer under or in respect of this contract shall be reimbursed by the Employer on actual basis as applicable on the supply by the bidder in pursuance of the contract. The same would be subject to the following:
- a) The bidder shall also indicate the possible locations and respective GSTIN's from where the supply is proposed to be made by him. Any exemptions/ tax benefits, if applicable to the bidder on the date of submitting the price bid shall be indicated by him and for the purpose of calculation of the amount of GST to be reimbursed, the Employer shall factor such exemptions/ tax exemptions irrespective of withdrawal of such exemptions/ tax benefits to the bidder during the execution of the Contract.
 - b) Invoice/Debit Note containing particulars specified under the GST Act and related Rules, Notifications, etc as prescribed by the Government in this regard, shall be considered as appropriate and necessary for taking reimbursement of the GST so charged.
 - c) In the event that the bidder fails to provide the invoice in the form and manner prescribed under the GST Act and Rules, the Employer shall not be liable to make any payment against such invoice.
- A.2. Notwithstanding anything contained anywhere in the Contract, in the event that the input tax credit of the GST charged by the bidder is denied by the tax authorities to the Employer for reasons associated with non-compliance/ incorrect compliance by the bidder, the Employer shall be entitled to recover such amount from the bidder by way of adjustment from any of the subsequent invoices issued by the bidder on the Employer. In addition to the amount of GST, the Employer shall also be entitled to recover interest at the rate of applicable SBI base interest rate and penalty, in case any penalty is imposed by the tax authorities. The Employer shall determine whether the denial of credit is linked to the non-compliance/ incorrect compliance of the bidder and the said determination shall be binding on the bidder.

Change in Law

- A.3. Subject to clause A.2 above, if any rates of Tax are decreased or any change in interpretation or application of any Tax which entails a decrease in the Taxes declared by the bidder in the Price Schedule, which was or will be assessed on the bidder in connection with performance of the Contract (i.e. during scheduled completion period as per contract), an equitable adjustment of the Contract price shall be made to fully take into account any such change by deduction therefrom. However, if any rates of Tax are increased, which was or will be assessed on the bidder in connection with performance of the Contract, no change shall be made in the Contract Price and the Employer shall not reimburse any additional amount payable thereto.
- A.4. Subject to clause A.2 above, if a new Tax is introduced or an existing Tax is abolished, which was or will be assessed on the bidder in connection with performance of the Contract, an equitable adjustment of the Contract price shall be made to fully take into account any such change by addition to the Contract price or deduction therefrom.

A.5. These adjustment shall not be applicable on procurement of raw materials, intermediary components etc. and In respect of raw materials, intermediary components etc., neither Employer nor the bidder shall be entitled to claim arising due to increase or decrease in the rate of tax, introduction of new tax or abolition of an existing tax in the course of the performance of the contract.

B. Anti-profiteering measure

As per Section 171 of the Central Goods and Services Tax Act, 2017, any reduction in rate of tax on any supply of goods or services or the benefit of input tax credit shall be passed on to the recipient by way of commensurate reduction in prices. In pursuance of the above provision, bidder is required to factor in the credit efficiencies available under GST and benefit due to reduction in tax rate to the employer and accordingly, declare the prices in the Price Schedule.

C. Rate quoted by the bidder shall remain firm & fixed and shall be binding on the Successful Bidder till completion of work irrespective of actual cost of execution of the project. No escalation in rate quoted by the bidder will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.

D. The offer must be kept valid for a period of 180 days from the last date of bid submission. No escalation clause would be accepted. The validity can be further extended as per requirement of RECPDCL. In case of requirement RECPDCL reserves right to ask bidder regarding extension of bid validity.



SECTION-VIII
TENDER FORMATS

FORM-I

Letter for Submission of Tender

To,
Addl. Chief Executive Officer
REC Power Distribution Company Ltd.,
A10, 4th Floor Kribhco Bhawan,
Sector-1, Noida – 201301

Sub.: Engagement of Service Agency

Sir,

1. With reference to your Tender No. -----dated ----- for Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh, I wish to apply for engagement with RECPDCL as service provider for **“Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh”**.

Further, I hereby certify that

I have read the provisions of the all clauses and confirm that notwithstanding anything stated elsewhere to the contrary, the stipulation of all clauses of Tender are acceptable to me and I have not taken any deviation to any clause.

2. I further confirm that any deviation to any clause of Tender found anywhere in my Bid, shall stand unconditionally withdrawn, without any cost implication whatsoever to the REC PDCL.
3. Our bid shall remain valid for period of 180 days from the last date of bid submission.

Date:

Signature.....

Place:

Full Name

Designation

Address.....

Note: In absence of above declaration/certification, the Bid is liable to be rejected and shall not be taken into account for evaluation.



PRE QUALIFICATION CRITERIA

Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh.

- 1. Name(s) of the company/companies
- 2. Regd. Address
- 3. Corporate identity number _____

- 4. Address of Office at Delhi/NCR

- 5. Contact Person's
 - i) Name & Design. _____
 - ii) Address _____
 - iii) Tel No. Landline _____ Mobile _____
 - iv) Email ID _____

- 6. Type of Company: Private Ltd./ Public Ltd.
(Please tick)

- 7. PAN _____

- 8. GST Reg. No.:

- 9. E.M.D. Details Rs._
DD No._
Name & Address of Bank

Please upload duly signed copies by authorized signatory of documentary evidence e.g. work order, corresponding satisfactory job completion certificates from clients with amount of work order in support of above and any other document indicated in prequalifying criteria)

Signature.....
Full Name.....
Designation.....
Address

Financial Bid (To be submitted through online mode only)

PROFORMA OF SCHEDULE OF RATES

Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh.

Bidder Name:

Form-1: Cost for Supply, Erection and Commissioning of Steel Monopoles along with Civil work for tower foundation							
S.No.	Equipment	Unit	Quantity	Per Unit Cost (in Rs.)	taxes & duties (in Rs.)	Total Unit Cost (in Rs.)	Total Cost (Incl. taxes & duties) (in Rs.)
A	B	C	D	E	F	G=E+F	H=DxG
I Supply (Monopoles with all accessories)							
1	Double Circuit Steel Monopole with step bolts & nuts, washers etc. fully galvanised (Bird Guard+Anti-Climbing device+Phase plates+Number plate+Danger plate+Circuit Plate etc.) C+3 type	Nos.	1			0	0
2	Double Circuit Steel Monopole with step bolts & nuts, washers etc. fully galvanised (Bird Guard+Anti-Climbing device+Phase plates+Number plate+Danger plate+Circuit Plate etc.) C+6 type	Nos.	5			0	0
3	Double Circuit Steel Monopole with step bolts & nuts, washers etc. fully galvanised (Bird Guard+Anti-Climbing device+Phase plates+Number plate+Danger plate+Circuit Plate etc.) C+9 type	Nos.	4			0	0
4	Double Circuit Steel Monopole with step bolts & nuts, washers etc. fully galvanised (Bird Guard+Anti-Climbing device+Phase plates+Number plate+Danger plate+Circuit Plate etc.) B+6 type	Nos.	13			0	0
5	Double Circuit Steel Monopole with step bolts & nuts, washers etc. fully galvanised (Bird Guard+Anti-Climbing device+Phase plates+Number plate+Danger plate+Circuit Plate etc.) A+6 type	Nos.	3			0	0
6	Double Circuit Steel Monopole with step bolts & nuts, washers etc. fully galvanised (Bird Guard+Anti-Climbing device+Phase plates+Number plate+Danger plate+Circuit Plate etc.) A+15 type	Nos.	2			0	0
SUB TOTAL (I)							0
II Services (Erection & Commissioning of Monopoles with earthing)							
1	Erection & Commissioning of Double Circuit Steel Monopole with all accessories along with 2 Nos. Pipe type earthing for C+3 type	Nos.	1			0	0
2	Erection & Commissioning of Double Circuit Steel Monopole with all accessories along with 2 Nos. Pipe type earthing for C+6 type	Nos.	5			0	0
3	Erection & Commissioning of Double Circuit Steel Monopole with all accessories along with 2 Nos. Pipe type earthing for C+9 type	Nos.	4			0	0
4	Erection & Commissioning of Double Circuit Steel Monopole with all accessories along with 2 Nos. Pipe type earthing for B+6 type	Nos.	13			0	0
5	Erection & Commissioning of Double Circuit Steel Monopole with all accessories along with 2 Nos. Pipe type earthing for A+6 type	Nos.	3			0	0

5	Erection & Commissioning of Double Circuit Steel Monopole with all accessories along with 2 Nos. Pipe type earthing for A+15 type	Nos.	2			0	0
SUB TOTAL (II)							0
III Supply+Service (Monopole Foundation Work)							
1	Soil Investigation, Civil Work of Tower Foundation for Steel Monopole C+3 type	Nos.	1			0	0
2	Soil Investigation, Civil Work of Tower Foundation for Steel Monopole C+6 type	Nos.	5			0	0
3	Soil Investigation, Civil Work of Tower Foundation for Steel Monopole C+9 type	Nos.	4			0	0
4	Soil Investigation, Civil Work of Tower Foundation for Steel Monopole B+6 type	Nos.	13			0	0
5	Soil Investigation, Civil Work of Tower Foundation for Steel Monopole A+6 type	Nos.	3			0	0
6	Soil Investigation, Civil Work of Tower Foundation for Steel Monopole A+15 type	Nos.	2			0	0
SUB TOTAL (III)							0
GRAND TOTAL (in Rs.) (I+II+III)							0

Form-2: Cost for Supply, Stringing, Commissioning, Testing of ACSR Zebra and GSS wire with all hardware and accessories							
S.No.	Equipment	Unit	Quantity	Per Unit Cost (in Rs.)	taxes & duties (in Rs.)	Total Unit Cost (in Rs.)	Total Cost (Incl. taxes & duties) (in Rs.)
A	B	C	D	E	F	G=E+F	H=DxG
I Supply (ACSR Zebra Conductor+Hardware+accessories)							
1	ACSR Zebra Conductor	KM	21.42			0	0
2	H/W fitting single suspension for Zebra	Nos	24			0	0
3	H/W fitting double suspension for Zebra	Nos	6			0	0
4	H/W fitting single tension with jumper cone for Zebra compression	Nos	228			0	0
5	H/W fitting double tension with jumper cone for Zebra compression	Nos	48			0	0
6	66 KV, 160 KN Composite polymer Insulator	Nos	306			0	0
7	Mid span compression joint for Zebra ACSR	Nos	18			0	0
8	Repairing Sleeve suitable for ACSR Zebra conductor	Nos	5			0	0
9	Vibration Damper suitable for ACSR Zebra conductor	Nos	396			0	0
10	Armoured rod	Nos	30			0	0
11	P.G. Clamp	Nos	30			0	0
SUB TOTAL (I)							0
II Supply (GSS wire+Hardware+accessories)							
1	GSS wire 7/3.15 mm	KM	3.57			0	0
2	H/W fitting suspension for GSS wire	Nos	5			0	0
3	H/W fitting Tension for GSS wire	Nos	46			0	0
4	Earth bonds of suitable size	Nos	28			0	0
5	Vibration Damper suitable for GSS wire	Nos	56			0	0
6	Mid span compression joint for GSS wire	Nos	3			0	0
SUB TOTAL (II)							0
III Services							
1	Stringing, Commissioning & Testing of ACSR Zebra (66 kV Double Circuit) and GSS wire with all hardware and accessories as per norms	KM	3.5			0	0
2	Electrical Inspector Fees	EA	1			0	0
SUB TOTAL (III)							0
GRAND TOTAL (in Rs.) (I+II+III)							0

Form-3: Cost Estimate for New 66kv bay in 66/11 kv Grid sub-station

S.No.	Equipment	Unit	Quantity	Per Unit Cost (in Rs.)	taxes & duties (in Rs.)	Total Unit Cost (in Rs.)	Total Cost (Incl. taxes & duties) (in Rs.)
A	B	C	D	E	F	G=E+F	H=DxG
I Supply of materials for 66kV Bay in 66/11 kv Grid sub-station							
1.1	Circuit Breaker 72.5kv, 25KA	No	1			0	0
1.2	66 kv, 2000 A Isolator with earth switch	No	1			0	0
1.3	66 kv, 2000 A Isolator without earth switch	No.	2			0	0
1.4	66kV, Current Transformer, 800-400/1/ 1/1 A	No.	3			0	0
1.5	Control & Relay Panel Indoor 66kv	set	1			0	0
1.6	Voltage Transformer 72.5 kv	No.	3			0	0
1.7	66kV, Lightning Arrestor	No.	3			0	0
1.8	CT/PT Junction box	No.	2			0	0
1.9	66kV Bay Marshalling Box	No.	1			0	0
2.0	Zebra Conductor, ACSR	Mtr	300			0	0
2.1	GSS 7/3.15 mm wire	Mtr	100			0	0
2.2	H/W fitting suspension bolted for GSS wire	Nos.	6			0	0
2.3	H/W fitting Tension bolted type GSS Wire	Nos.	6			0	0
2.4	4 Core LT PVC Cable 16Sqmm	No	100			0	0
2.5	GI Flat 50X6 MM	KG.	700			0	0
2.6	GI Flat 75x10 MM	KG.	1100			0	0
2.7	Earthing rod Electrode, 32 mm	No.	18			0	0
2.8	1.1kV PVC Cable CU 10C X 2.5MM2	Mtr	1000			0	0
2.9	1.1kV PVC Cable CU 6C X2.5MM2	Mtr	200			0	0
3.0	LT Cable 2CX2.5 sqmm	Mtr	1000			0	0
3.1	cable tray 100x50 petrорated type	Mtr	300			0	0
3.2	cable tray 600x50 ladder type	Mtr	100			0	0
3.3	Spacer, Bus Bar, F/Zebra Conductor	Nos.	12			0	0
3.4	7/3.15 mm GSS wire for shielding	Mtr	150			0	0
3.5	Galvanised steel structure	MT	5			0	0
3.6	GI Nuts,Bolts & Washers	MT	0.8			0	0
3.7	GI Nuts,Bolts & Washers	MT	1			0	0
3.8	4C X 95 Sq. mm. AL Cable	Mtr	60			0	0
3.9	H/W fitting suspension bolted type for ACSR Zebra	Nos.	6			0	0
4.0	H/W fitting Tension bolted type for ACSR Zebra	Nos.	6			0	0
4.1	P.G. Clamp for ACSR Zebra	Nos.	6			0	0
4.2	Cost of Misc. items(Ferrules, Lugs, clamp etc.)	Lumpsum	1			0	0
SUB TOTAL(I)							0
II Services							
4.3	LabourCost for execution of the Scheme,Overhead charges including Transportation, Establishment & Supervision Charges for Erection,Testing & Commissioning	Lot	1			0	0
4.4	Civil foundation works	Lot	1			0	0
4.5	Electrical Inspector Fees	Lumpsum	1			0	0
SUB TOTAL(II)							0
GRAND TOTAL (in Rs.)(I+II)							0

REC Power Distribution Company Limited



FORM IV

FORMAT FOR NO-DEVIATION CERTIFICATE

We shall abide by all specifications and terms and conditions of the tender.

By signing this document, we hereby accept and comply to all the terms and conditions, technical specifications, scope of work etc. as mentioned in the bid document.

Seal of the Company:

Signature

Name

Note: In absence of above declaration/certification, the Bid is liable to be rejected and shall not be taken into account for evaluation.



MANUFACTURER AUTHORIZATION FORM

(To be submitted on OEM's Letter Head)

Date:
ICB No.:
Invitation for Bid No.:
Alternative No.:

To,
The Nodal Officer (Smart Grid Pilot Project)
Electricity 'OP' Division No. 2,
Opp. Transport Area, New Power House
Industrial Area Phase – 1, UT Chandigarh

Sir,
WHEREAS M/s. [name of OEM], who are official manufacturers of having factories at [address of OEM] do hereby authorize M/s [name of bidder] to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by us
.....
and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Special Conditions of Contract or as mentioned elsewhere in the Tender Document, with respect to the Goods offered by the above firm in reply to this Invitation for Bids.

We hereby confirm that in case, the channel partner fails to provide the necessary services as per the Tender Document referred above, M/s [name of OEM] shall provide standard warranty on the machines supplied against the contract. The warranty period and inclusion / exclusion of parts in the warranty shall remain same as defined in the contract issued to their channel partner against this tender enquiry.
Yours Sincerely,

For

Authorized Signatory

Note: In absence of above declaration/certification, the Bid is liable to be rejected and shall not be taken into account for evaluation.



Format of Curriculum Vitae

1	PROPOSED POSITION:			
2	NAME OF FIRM			
3	NAME OF STAFF:			
4	DATE OF BIRTH:		Nationality:	
5	EDUCATION:			
	DEGREE/EXAMINATION	YEAR	INSTITUTE	Board
6	MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS:			
7	OTHER TRAINING:			
8	COUNTRIES OF WORK EXPERIENCE:			
9	LANGUAGES:			
	LANGUAGE	SPEAKING	READING	WRITING
10	EMPLOYMENT RECORD:			
	FROM	To	EMPLOYER	POSITIONS HELD
11	DETAILED TASKS ASSIGNED:			
12	WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THE TASKS ASSIGNED:			
13	Certification:			
	I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.			
	Signature of authorised representative of the staff			
	Full name of authorised representative:			



LETTER OF TRANSMITTAL

To: [Name and address of Client]

.....
.....
.....

Dear Sir/s,

I/We, the undersigned, have examined the details given in your NIT dated [Insert Date] for **Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh.** We accept all the terms & conditions of the bid document without any deviation and submit the Bid. We hereby certify that M/s _____ and its consortium partners or its group companies have not been awarded any work for **Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh.** Also, M/s _____ and its consortium partners or its group companies is not executing or providing any type of services either directly or as a sub-contractor for the particular work for which Bid is submitted.

It is confirmed that M/s. _____ and its consortium partners is not banned or blacklisted by any Govt./Pvt. Institutions in India.

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Address:



(To be executed on non-judicial paper)
INTEGRITY PACT

Between

REC Power Distribution Company Ltd (REC PDCL) hereinafter referred to as "The Principal",

And

.....hereinafter referred to as "Bidder "

Preamble

The Principal intends to award, under laid down organization procedures, contract/s forThe Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s, agency/s.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organisation "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an Independent External Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

- a) No employee of the Principal, personally or through family members, will in connection with the tender, or the execution of the contract, demand, take a promise for or accept, for himself/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
- b) The Principal will, during the tender process, treat all Bidders with equity and reason. The Principal will, in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential / additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.
- c) The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder / agency.

(1) The Bidder / agency commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- a) The Bidder /agency will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person, any material or immaterial benefit which he/she is not legally entitled to, in order to obtain in exchange, any advantage of any kind whatsoever during the tender process or during the execution of the contract.

- b) The Bidder / agency will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.
- c) The Bidder / agency will not commit any offence under the relevant Anti-Corruption Laws of India; further the Bidder / agency will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d) The Bidder / agency will, when presenting his bid, disclose any and all payments he has made, is committed to, or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (2) The Bidder / agency will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Agency, before contract award, has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or credibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

- (1) If the agency has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is also entitled to exclude the agency from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
- (2) A transgression is considered to have occurred if the Principal after due consideration of the available evidences, concludes that no reasonable doubt is possible.
- (3) The Bidder accepts and undertakes to respect and uphold the Principal's absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
- (4) If the agency can prove that he has restored / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.

Section 4 – Compensation for Damages

- (1) If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to Earnest Money Deposit/Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover

from the Consulting agency/Architect/Supplier liquidated damages equivalent to Security Deposit / Performance Bank Guarantee.

(3) The Bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the agency can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount of the liquidated damages, the agency shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 – Previous Transgression

(1) The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all agency

(1) The agency undertakes to demand from all sub-consulting agency a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.

(2) The Principal will enter into agreements with identical conditions as this one with all agency and Sub-consulting agency.

(3) The Principal will disqualify from the tender process all Bidders who do not sign this Pact or violate its provisions.

Section 7 – Punitive Action against violating agency /Sub-consulting agency/

If the Principal obtains knowledge of conduct of a agency or Sub-consulting agency, or of an employee or a representative or an associate of a agency, Sub-consulting agency\ which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 – Independent External Monitors

(1) The Principal has appointed competent and credible Independent External Monitors for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

(2) The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.

(3) The agency accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the agency. The agency will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to this project documentation. The same is applicable to Sub-consulting agency. The Monitor is under contractual obligation to treat the information and documents of the agency or Sub-consulting agency with confidentiality.

(4) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations



between the Principal and the agency. The parties offer to the Monitor the option to participate in such meetings.

(5) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendation. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Independent External Monitor shall give an opportunity to the agency to present its case before making its recommendations to the Principal.

(6) The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.

(7) If the Monitor has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

(8) The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

This Pact begins when both parties have legally signed it. It expires for the agency 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairperson of the Principal.

Section 10 – Other provisions

(1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.

(2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

(3) If the Bidder is a consortium, this agreement must be signed by all consortium members.

(4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

.....

For the Principal for the Bidder

Place Witness1: (Signature/Name/Address)

Date Witness2: (Signature/Name/Address)



Annexure A

PERFORMANCE BANK GUARANTEE

M/s. REC Power Distribution Company Ltd.
A10, 4th Floor, Kribhco Bhawan,
Sector-1, Noida – 201301
(With due Rs.100/- stamp duty, if applicable)

OUR LETTER OF GUARANTEE No. :

Date:

Amount:

Valid Date:

Bank Name & Address:

In consideration of REC Power Distribution Company Ltd. having its office ^{at} A10, 4th Floor, Kribhco Bhawan, Sector-1, Noida – 201301(hereinafter referred to as “RECPDCL” which expression shall unless repugnant to the content or meaning there of include all its successors, administrators and executors) and having entered into an agreement dated _____/issued Work Order No. _____ dated _____ with/on as _____ (hereinafter referred to as “The service” which expression unless repugnant to the content or meaning thereof, shall include all the successors, Administrators and executors).

WHEREAS the Agency having unequivocally accepted to supply the materials as per terms and conditions given in the Agreement accepted to providing service as per terms and conditions given in the Agreement dated _____ /Work Order No. _____ dated _____ and RECPDCL having agreed that the Agency shall furnish to RECPDCL a Performance Guarantee for the faithful performance of the entire contract, to the extent of 10% (ten percent) (or the percentage as per the individual case) of the value of the Work Order i.e. for _____.

We, _____(The Bank) which shall include OUR successors, administrators and executors herewith establish an irrevocable and unconditional Letter of Guarantee No. _____ in your favour for account of _____ (The Agency) in cover of performance guarantee in accordance with the terms and conditions of the Agreement/work Order.

Hereby, we undertake to pay upto but not exceeding _____ (say _____ only) upon receipt by us of your first written demand accompanied by your declaration stating that the amount Claimed is due by reason of the Agency having failed to perform the Agreement and despite any contestation on the part of above named Agency.

REC Power Distribution Company Limited



This Letter of Guarantee will expire on _____ plus 60 days of claim period and any claims made hereunder must be received by us on or before expiry date after which date this Letter of Guarantee will become of no effect whatsoever whether returned to us or not.

Authorized Signature
Chief Manager/Manger
Seal of Bank

Annexure B

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

(To be signed and stamped by the bidder)

In a bid to make our entire procurement process more fair and transparent, RECPDCL intends to use the reverse auctions as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are accepted by the bidder on participation in the bid event:

1. RECPDCL shall provide the user id and password to the authorized representative of the bidder. *(Authorization Letter in lieu of the same shall be submitted along with the signed and stamped Acceptance Form).*
2. RECPDCL decision to award the work would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of RECPDCL, bid process, bid technology, bid documentation and bid details to any other party.
4. The bidder is advised to fully make aware themselves of auto bid process and ensure their participation in the event of reverse auction and failing to which RECPDCL will not be liable in any way.
5. In case of bidding through Internet medium, bidders are further advised to ensure availability of the infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs, power failure or any other reason shall not be the responsibility of RECPDCL.
6. In case of intranet medium, RECPDCL shall provide the infrastructure to bidders. Further, RECPDCL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case an auction event is restarted, the best bid as already available in the system shall become the basis for determining start price of the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be out rightly rejected by RECPDCL.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder.
11. No requests for time extension of the auction event shall be considered by RECPDCL.
12. The original price bids of the bidders shall be reduced on pro-rata basis against each line item based on the final all-inclusive prices offered during conclusion of the auction event for arriving at Contract amount.

Signature & Seal of the Bidder



Annexure C

BID BANK GUARANTEE (EARNEST MONEY)
(To be stamped in accordance with Stamp act)

This deed of Guarantee made this _____ day of _____ 2017
by _____

((Name of the Bank))

having one its branch at _____ acting through its Manager (hereinafter called the “Bank”) which expression shall wherever the context so requires includes its successors and permitted assigns in favour of REC Power Distribution Company Ltd., registered under the Companies Act, 1956, having _____ its _____ office _____ at _____ (hereinafter called) (“RECPDCL”) which expression shall include its successors and assigns.

WHEREAS RECPDCL has invited tender vide their Tender Notice No.

_____ Dated _____ to be opened on AND

WHEREAS M/s _____

(Name of Tenderer)

having its office at _____ (hereinafter called the “Tenderer”), has/have in response to aforesaid tender notice offered to supply/ do the job _____ as contained in the tender.

AND WHEREAS the Tender is required to furnish to RECPDCL a Bank Guarantee for a sum of Rs.

_____ (Rupees _____

_____ Only) as Earnest Money for participation in the Tender aforesaid.

AND WHEREAS, we _____

(Name of Bank) have at the request of the tenderer agree to give RECPDCL this as hereinafter contained.

NOW, THEREFORE, in consideration of the promises we, the undersigned, hereby covenant that, the aforesaid Tender shall remain open for acceptance by RECPDCL during the period of validity as mentioned in the Tender or any extension thereof as RECPDCL and the Tenderer may subsequently agree and if the Tenderer for any reason back out, whether expressly or impliedly, from his said Tender during the period of its validity or any extension thereof as aforesaid or fail to furnish Bank Guarantee for performance as per terms of the aforesaid Tender, we hereby undertake to pay RECPDCL, New Delhi on _____ demand _____ without _____ demur _____ to _____ the _____ extent _____ of Rs. _____ (Rupees _____ only).

We further agree as follows:-

01. That RECPDCL may without affecting this guarantee extend the period of validity of the said Tender or grant other indulgence to or negotiate further with the Tenderer in regard to the

conditions contained in the said tender or thereby modify these conditions or add thereto any further conditions as may be mutually agreed to in between RECPDCL and the Tenderer AND the said Bank shall not be released from its liability under these presents by an exercise by RECPDCL of its liberty with reference to the matters aforesaid or by reason of time being given to the Tenderer or any other forbearance, act or omission on the part of the RECPDCL or any indulgence by RECPDCL to the said Tenderer or any other matter or thing whatsoever.

02. The Bank hereby waive all rights at any time in consistent with the terms of this Guarantee and the obligations of the Bank in terms thereof shall not be otherwise affected or suspended by reason of any dispute or dispute having been raised by the Tenderer (whether or not pending before any arbitrator, tribunal or court) or any denial of liability by the Tenderer stopping or preventing or purporting to stop or prevent any payment by the Bank to RECPDCL in terms thereof.
03. We the said Bank, lastly undertake not to revoke this Guarantee during its currency except with the previous consent of RECPDCL in writing and agree that any charges in the constitution, winding up, dissolution or insolvency of the Tenderer, the said Bank shall not be discharged from their liability.

NOTWITHSTANDING anything contained above, the liability of the Bank in respect of this Guarantee is restricted to the said sum of Rs. _____ (Rupees _____ only) and this Guarantee shall remain in force till _____ unless a claim under this guarantee is filed with the bank within 30 (thirty) days from this date or the extended date, as the case may be i.e. upto _____ all rights under Guarantee shall lapse and the Bank be discharged from all liabilities hereunder.

In witness whereof the Bank has subscribed and set its name and seal here under.

Note: - The date shall be thirty (30) days after the last date for which the bid is valid.



Consortium and OEM Structure

1. Bid Structure

In case of consortium, the bidder shall clearly specify the Structure of consortium as detailed below

S. No.	Consortium Structure	Name of firm
1	Lead Bidders Name	
2	Consortium Partner 1(optional)	
3	Consortium Partner 2(optional)	

2. Project Components OEM Detail

The bidder shall clearly specify the OEMs of various components of as attached below.:

S.No	Project Component	OEM Name
1	Monopole supplier	
2		
3		
4		
5		
6		



CONSORTIUM AGREEMENT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution)

THIS Consortium Agreement (“Agreement”) executed on this _____ day of _____ 2016 between M/s [insert name of Lead Member] _____ a Firm / Company incorporated under the laws of _____ and having its Registered Office at _____ (hereinafter called the “Lead Member”, which expression shall include its successors, executors and permitted assigns)

And

M/s _____ a Firm / Company incorporated under the laws of _____ and having its Registered Office at _____ and M/s _____ a Firm / Company incorporated under the laws of _____ and having its Registered Office at _____ (hereinafter called the “Consortium Partner”, which expression shall include its successors, executors and permitted assigns), which expression shall include its successors, executors and permitted assigns)

WHEREAS, each Member individually shall be referred to as the “Member” and all the members shall be collectively referred to as the “Members” in this Agreement.

WHEREAS the REC Power Distribution Company Limited (hereinafter called RECPDCL) has invited bids for NIT No. _____ dated _____ for Rate Contract for Turnkey Execution of deposit work including Supply, Erection, Commissioning, Project Management, Design, Engineering, Inspection and supervision of work for providing 66 KV transmission Line to upcoming 66 KV Grid substation along with associated 66 KV line Bays at Raipur Kalan, UT Chandigarh for Chandigarh Electricity Department (CED), Chandigarh.

WHEREAS the tender document stipulates that the Lead Member may enter into a Consortium Agreement with another Company/ Corporate entity to fulfill the Financial and Technical Eligibility Criteria as stipulated in the tender document. The Members of the Bidding Consortium will have to submit a legally enforceable Consortium Agreement in a format enclosed with the tender document.

NOW THEREFORE, THIS AGREEMENT WITNESSTH AS UNDER:

In consideration of the above premises and agreements all the Members in this Consortium do hereby mutually agree as follows:

1. We, the Members of the Consortium and Members to the Agreement do hereby unequivocally agree that (M/s _____), shall act as the Lead Member as defined in the RFS for self and agent for and on behalf of Consortium Partner _____.
2. The Lead Member is hereby authorized by the Consortium Partner(s) to bind the Consortium and receive instructions for and on their behalf.
3. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all of their respective obligations. Each Member further undertakes to be individually liable for the performance of its



part of the obligations without in any way limiting the scope of collective liability envisaged in this Agreement.

4. In case of breach of any commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.
5. This Agreement shall be construed and interpreted in accordance with the Laws of India and courts at Delhi alone shall have the exclusive jurisdiction in all matters relating thereto and arising there under.
6. It is hereby further agreed that in case of being shortlisted, the Members do hereby agree that they shall abide by the terms & conditions of the tender document.
7. It is further expressly agreed that this Agreement shall be irrevocable and shall form an integral part of the bid submitted to RECPDCL and shall remain valid till completion of the job assigned to the Contractor.
8. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Members respectively from time to time in the response to tender.
9. It is hereby expressly understood between the Members that no Member at any given point of time, may assign or delegate its rights, duties or obligations under this agreement without the explicit permission of RECPDCL.
10. This Agreement
 - a. Has been duly executed and delivered on behalf of each Member hereto and constitutes the legal, valid, binding and enforceable obligation of each such Member;
 - b. Sets forth the entire understanding of the Members hereto with respect to the subject matter hereof; and
 - c. May not be amended or modified except in writing signed by each of the Members and with prior written consent of RECPDCL.

IN WITNESS WHEREOF, the Members have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above.

For M/s _____ [Lead Member]

(signature, Name & Designation of the person authorized vide Board Resolution Dated _____)

Witnesses:

1) Signature:

Name:

Address:

2) Signature

Name:

Address:

For M/s _____ [Consortium Partner]



(signature, Name & Designation of the person authorized vide Board Resolution Dated_____)

Witnesses:

1) Signature:
Name:
Address:

2) Signature
Name:
Address:
For M/s_____ [Consortium Partner]

(signature, Name & Designation of the person authorized vide Board Resolution Dated_____)

Witnesses:

1) Signature:
Name:
Address:

2) Signature
Name:
Address:

Annexure F

E-Reverse Auction Guidelines

These Guidelines are intended to guide about e-Reverse Auction processes, awarding criteria, and confidentiality requirements, and to the binding nature of bids made at e-Reverse Auction.

The aim of e-Reverse Auctions is to enable negotiations to be engaged in using technology that allows a faster pricing process, a more objective way of selecting bidders and greater transparency of market prices. REC and bidders are expected to follow the standards set forth in these Guidelines.

1. Reverse Auctions are carried out under the framework of rules as defined by RECPDCL and all bidders participating in Reverse Auction shall understand/accept and give an undertaking for compliance with the same to the REC in the prescribed format (Annexure – B).
2. Any bidder not willing to submit such an undertaking shall be disqualified for further participation with respect to the said procurement.
3. Reverse Auction shall be carried out amongst the bidders who have quoted within lowest price + 15% of the evaluation criteria price. However in case no other bidders fall within +15% of L-1 quoted prices then reverse auction can take place up to lowest price + 25% or as decided by RECPDCL shall be allowed to participate in the online Reverse Auctioning.
4. The overall lowest price quoted by the bidder will be considered as Reserve Base Price during reverse auction, further the item wise price of all items shall be arrived from the overall lowest quoted price in the same ratio as quoted by the bidders earlier in the financial bid and all the technically qualified bidders will be considered at same platform.
5. Decrement value to be kept for conducting Reverse Auction shall range from 0.50% to 5% of the Reserve Base Price converted to the nearest round figure, depending upon the value of the bid.
6. Preferably the time duration to be kept for conducting Reverse Auction process is from 11:00 AM to 3:00 PM with the incremental time duration of 30 minutes from the time of last quote considering that the bidder may be provided the sufficient time for quoting their best lowest rates. The window may be extended to accommodate 30 minutes, if required, response time. The auction will terminate either at the scheduled end time or as extended as per requirement till there is no response during the incremental time duration. However RECPDCL reserves the right to modify the process with pre-information to bidders if required.
7. The eligible bidders can participate in the online Reverse Auction from any place of their choice and need not to visit RECPDCL office for this purpose.
8. The User ID and password for online reverse auction is same as used in online bidding process/ provided at the time of bidder registration.
9. The Reserve Base Price for Reverse Auction will be informed after the Opening of Price Bid. This shall be the lowest rate received against the initial price bids submitted by participating bidders.
10. RECPDCL shall make all out efforts to rectify the problem(s) leading to system failure during the online reverse auction. However in case the system could not be restored within the reasonable time period as deemed fit by RECPDCL, the reverse auction event shall be suitable extended/ shall be restarted again after rectification by giving a new schedule for the same, which shall cover the left over time period as per the original schedule. On restart of reverse auction the last R1 price

received during reverse auction at which the reverse auction event got terminated, shall be the starting price.

11. Where necessary, RECPDCL will facilitate training for participation in Reverse Auction either on its own or through the service provider for the Reverse Auction to familiarize the vendors/bidders with Reverse Auction process.
12. Any vendor/bidder not participating in training shall do so at his own risk and it shall not be open for him to make any complaint/grievance later.
13. No request for postponement/fixing of Training Date/Time shall be entertained.
14. The Date and Time of commencement of Reverse Auction shall be communicated to the shortlisted bidders at least One day in advance.
15. Any force majeure or other condition leading to postponement of auction shall entitle RECPDCL to postpone the auction.
16. The Reverse Auction may be conducted by RECPDCL through a service provider specifically identified/appointed/empanelled by RECPDCL.
17. In case Reverse Auctions conducted by RECPDCL through a Service Provider, the REC shall enter into a separate agreement clearly detailing the role and responsibilities of the service provider hosting the web portal for the Reverse Auction. The Service Level Agreement (SLA) by RECPDCL with the service provider is an arrangement for smooth and fair conduct of the Reverse Auction.
18. All the bids made from the log-in ID given to bidder shall ipso facto be considered. Bids are to be made by the vendor / bidder using log-in ID and password assigned by the service provider /auctioneer.

Note: RECPDCL reserves right to amend/modify the procedure of reverse auction at its sole discretion.



ANNEXURE-G

PROFORMA FOR “NO DEMAND CERTIFICATE” BY ASSOCIATE

(On Company’s Letter head or with Company Seal)

(To be submitted by the Bidder to RECPDCL Accounts Department at the time of receipt of full and final payment)

(Certificate No. CCP/002)

Name of the Project: _____

Order/ Contract No. Dated: _____

Name of the Bidder: _____

Scheme No. / Job No.: _____

We, M/s. _____ (Bidder) do hereby acknowledge and confirm that we have received the full and final payment due and payable to us from RECPDCL, in respect of our aforesaid Order No _____ dated _____ including amendments, if any, issued by RECPDCL to our entire satisfaction and we further confirm that we have no claim whatsoever pending with RECPDCL under the said contract / W.O.

Notwithstanding any protest recorded by us in any correspondence, documents, measurement books and / or final bills etc., we waive all our rights to lodge any claim or protest in future under this contract.

We are issuing this “NO DEMAND CERTIFICATE” in favour of RECPDCL, with full knowledge and with our free consent without any undue influence, misrepresentation, coercion etc.

Dated Signature

Place

Name

Designation

(Company Seal)



ANNEXURE – H

PROFORMA FOR “INDEMNIFICATION ON STATUTORY COMPLIANCES”

(To be submitted by the successful Bidder within seven (07) days of award of work)

(Certificate No. CCP/001)

Name of the Project: _____

Order/ Contract No. Dated: _____

Name of the Bidder: _____

Scheme No. / Job No.: _____

By this confirmation we, _____ (Bidder) are
1952 in respect of employees employed by us.

We well and truly bind ourselves and our heirs executors administrators and representatives jointly severally and respectively for the above payment only to be paid to M/s. RECPDCL.

AND WHEREAS we, _____ (Bidder)
is making compliance of the Employees Provident Fund and Miscellaneous Provisions Act 1952,
have entered into the above written bond for the indemnity to M/s. RECPDCL against all losses
from the acts or default of the said Bidder in respect of compliance of the Provident Fund Act.

Similarly we hereby confirm that we have complied with all statutory and local laws and nothing is
outstanding with regard to Local Sales Tax, Labour Laws, Local Municipal dues, Electricity dues etc.
We have entered into the above written bond for the indemnity to M/s. RECPDCL against all
losses from the acts or default of the said Bidder in respect of compliance of the Local Sales Tax
Laws, Local Laws, Labour Laws, Local Municipal Dues, Electricity dues etc.

NOW THE CONDITION, of the above written bond is as such that if the Bidder during the period of
this contract commits any default or fails to make payment of Contributions in respect of his
employees to the Employees Provident Fund Organization, he shall indemnify the Principal
Employer M/s. RECPDCL from all and every loss and damage caused to them from any act,
omissions or negligence of the said Bidder in respect of compliances under the Employees
Provident Fund and Miscellaneous Provisions Act, 1952.

IN WITNESS to the above written bond we have here to set our hands, with our free consent.

Dated Signature

Place

Name

Designation

(Company Seal)

Annexure I

Document Indexing



Bidder will submit an Index of documents submitted with this bid mentioning following details. This index will be used to locate the document easily and correlating correct document with correct QR as per Section-VI in following format:

S.No.	QR clause and page number as per NIT	Title of document submitted against each QR	Relevant page number in document.	Relevant clause no. in document.
1				
2				
3				
4				
5				