



Bid Number/बोली क्रमांक (बिड संख्या):  
GEM/2024/B/4808958  
Dated/दिनांक : 21-03-2024

### Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	01-04-2024 16:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	01-04-2024 16:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Finance
Department Name/विभाग का नाम	Department Of Financial Services
Organisation Name/संगठन का नाम	State Bank Of India (sbi)
Office Name/कार्यालय का नाम	Bhopal
Total Quantity/कुल मात्रा	4
Item Category/मद केटेगरी	Solar Power Plant (Roof Top) for ONGRID System, Three Phase (Q3)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	4 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	40 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer

<b>Bid Details/बिड विवरण</b>	
<b>Past Performance/विगत प्रदर्शन</b>	80 %
<b>Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया</b>	No
<b>Type of Bid/बिड का प्रकार</b>	Two Packet Bid
<b>Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय</b>	2 Days
<b>Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	No
<b>Evaluation Method/मूल्यांकन पद्धति</b>	Total value wise evaluation

#### **EMD Detail/ईएमडी विवरण**

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	12000

#### **ePBG Detail/ईपीबीजी विवरण**

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	60

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

#### **Beneficiary/लाभार्थी :**

Manager(Electrical)  
Bhopal, Department of Financial Services, State Bank of India (SBI), Ministry of Finance. Premises & Estate Department, LHO, Bhopal.  
(Deepak Vishwakarma)

#### **Splitting/विभाजन**

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

**MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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**MSE Purchase Preference/एमएसई खरीद वरीयता**

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.  
[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.
5. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023  
[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

6. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

### Solar Power Plant (Roof Top) For ONGRID System, Three Phase ( 4 set )

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

#### Technical Specifications/तकनीकी विशिष्टियाँ

\* As per GeM Category Specification/जेम कैटेगरी विशिष्टि के अनुसार

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
INVERTER	Rated out put power of inverter (Kw)	4
	Switching device	IGBT, MOSFET
	No. of Phase (in Nos.)	3
	Inverter output wave form	Pure sine wave
	No.of MPPT per inverter (in Nos.)	1, 2, 4
	No. of string at input side of inverter ( input port +ve and -ve) ( hint: 1 sets contains 1 +ve and 1 -ve port)	1 set, 2 sets, 3 Sets, 4 Set
	Maximum power point tracker	Integrated in the PCU/inverter to maximize energy drawn from the array
	Operating Voltage Range of Inverter	50 V to 500 V, 80 to 500 V, 100 V to 500 V, 160 V to 850 V, 200 V to 800 V, 200 V to 1000 V, 90 to 520
	Over load support at Input side, DC	20% of Maximum Input Voltage for 3 phase system, 30% of Maximum Input Voltage for 3 phase system, 10% overload DC Capacity, 15% of Maximum Input Voltage
	Maximum input current for each MPPT (in A)	11, 18, 22, 28.5
	Service condition	Indoor,, Outdoor
	Ingress protection rating of inverter	IP 65 (for outdoor use), IP 23 (for indoor use), IP 20 (for indoor use)
	Cooling medium for inverter	Nature air cooled, Constant speed Fan Cooled, Intelligent fan cooling
	Manual switch for disconnecting DC supply	Yes, No
Inverter mounting type	Wall Mounted, Floor Mounted	

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
GENERIC	<b>A Grid Tied Photo Voltaic (SPV) power plant consists of</b>	SPV array, Module Mounting Structure, Power Conditioning Unit (PCU) consisting of Maximum Power Point Tracker (MPPT), Inverter, and Controls and Protections, interconnect cables and switches
	<b>PV Array Mounting</b>	Mounted on a suitable structure
	<b>Grid tied SPV system is</b>	Without battery and designed with necessary features to supplement the grid power during day time.
	<b>Installation and testing for complete system</b>	Yes including Civil Work, Designing, Fabrication, Cabling Work with suitable Bolts, Nuts, Clamps, Connectors and testing etc
INVERTER OUT PUT	<b>Maximum current for 3 phase inverter (in A)</b>	19.1, 23.8, 27, 31.8, 41.7, 50, 83.3, 100
	<b>Output voltage (in V)</b>	415 for 3 phase, 240 V Single Phase
	<b>Invert auto trip at output side</b>	Lower : at 304 V, Higher : at 460 V with adjustable, Lower : at 313 V, Higher : at 470 V wit adjustable, Lower : at 160 V, Higher : at 285 V with adjustable
	<b>Overall Efficiency (in %)</b>	>93, >96, >98, >90
PROTECTION FOR INVERTER	<b>Overload protection</b>	110% for 1 Minute, 125% for 30 sec, 150% for 5 sec
	<b>Over temperature protection</b>	Yes at 65 Deg. C Cooling Fan will auto switch ON, Yes at 65 Deg. C shutdown
	<b>Surge protection</b>	Metal Oxide Varistor (MOV)
	<b>Insulation Resistance Monitoring</b>	Yes, No
	<b>Grid Monitoring protection</b>	Yes, No
	<b>Power factor at rated out put power</b>	> 0.9, 0.8, 0.9
SERVICE CONDITION	<b>Operating temperature</b>	-25 to +60 deg. C, -20 to +50 deg. C
DISPLAY FEATURES ON INVERTER	<b>Type of display</b>	LCD, LED
	<b>Display parameters</b>	DC Voltage, DC Current, AC Voltage, AC Current, Out put frequency, Power Factor
	<b>Generating power Data storage facility</b>	Yes for 2 Years from the date of commissioning
	<b>Interface facility for transmitting the generating power data for cloud storage</b>	Inbuilt Wifi Enabled, With Wifi Dongle, With GPRS Dongle without SIM card, With RS 485
	<b>Net meter</b>	Approved by Government of India/State Government authority concerned for connecting to Grid
Add on items - DC DISTRIBUTION BOARD	<b>DC Distribution panel to receive the DC output from the array field</b>	Yes with surge arrestors

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	<b>Ingress protection (Enclosure protection) of DC Distribution Box</b>	IP65
	<b>Material of bus bar and size</b>	Copper, size as per inverter rating
	<b>Circuit Breaker for input side (DC side) for each inverter</b>	MCB 10 A, MCB 15 A
Add on items - CABLE FOR INPUT	<b>ISI Marked Connecting cables according to Inverter rating for each system</b>	PV Module to Inverter DC
	<b>Electric Cable for Input</b>	1C x 4 Sq. mm, Copper Cable (as per IS:694:2010 latest), 1C x 6 Sq. mm, Copper Cable (as per IS:694:2010 latest)
	<b>Cable Length for PV Module to Inverter, DC (in m)</b>	5, 10, 15, 20, 25
Add on items - AC DISTRIBUTION BOARD	<b>AC Distribution Panel Board (DPB) for controlling the AC power from PCU/inverter</b>	3 Phase 415 Volt +/- 10%, 50 HZ +/- 3 Hz, 1 phase 230 volt +/- 10%, 50 Hz +/- 3%
	<b>Panel construction</b>	Metal clad, totally enclosed, floor mounted, air insulated, cubical type with change over switch
	<b>Ingress protection (Enclosure protection) of AC Distribution Box</b>	IP54 for Indoor, IP65 for outdoor
	<b>All switches and the circuit breakers, connectors should conform to</b>	IS:60947 part I, II and III.
	<b>Panels designed for minimum expected ambient temperature</b>	45 deg. C
	<b>Circuit Breaker for output side (AC side) for each inverter</b>	MCB 10 A, MCB 16 A, MCB 20 A, MCB 25 A, MCB 32 A, MCB 40 A, MCB 63 A, MCB 100 A
Add on items - CABLE FOR OUTPUT	<b>ISI marked Connecting cables according to Inverter rating for each system</b>	From Inverter to Net Meter, From Inverter to Net Meter and to mains at LT Bus bar while in grid tied mode
	<b>Conformity of the specification for cable</b>	3.5C x 6 Sq. mm, Copper Cable (as per IS:694:2010 latest), 3.5C x 10 Sq. mm, Copper Cable (as per IS:694:2010 latest), 3.5C x 16 Sq. mm, Copper Cable (as per IS:694:2010 latest), 3.5C x 35 Sq. mm, Copper Cable (as per IS:694:2010 latest), C X 6 Sq. mm, copper cable (as per IS:694:2010 latest, C X 10 Sq. mm, copper cable (as per IS:694:2010 latest, 2 C X 16 Sq. mm, copper cable (as per IS:694:2010 latest, 2.5 sq. mm 2 core copper cable, 4 sq. mm 2 core copper, 4 sq. mm 4 core copper, 10 sq. mm 4 core Aluminium, 16 sq. mm 4 core Aluminium, 25 sq. mm 3.5 core Aluminium, 35 sq. mm 3.5 core Aluminium, 50 sq. mm 3.5 core Aluminium, 70 sq. mm 3.5 core Aluminium, 95 sq. mm 3.5 core Aluminium

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	<b>Cable length for output side (from inverter to Net Meter for each system ) (in m )</b>	5, 10, 15, 20, 25, 30, 35, 40
Other Add on Items	<b>Cablings work at input side for each system</b>	With PVC Conduit pipe with necessary clamps and screws, With G.I. Cable Tray with fitment accessories
	<b>Cablings work at Output side for each system</b>	With G.I. Cable Tray with fitment accessories
	<b>Danger boards and signages</b>	1 No, 2 No., 3 No.
ARRAY STRUCTURE	<b>Material of mounting structure for mounting the modules/ panels/arrays</b>	Structural Steel, Grade: E300 (as per IS:2062:2011 latest), Structural Steel, Grade: E350 (as per IS:2062:2011 latest), Structural Steel, Grade: E410 (as per IS:2062:2011 latest)
JUNCTION BOX	<b>Material of Junction Box</b>	GRP( Glass reinforced plastic), FRP (Fibre reinforced plastics), Powder Coated Aluminium, cast aluminium alloy
	<b>Ingress protection (Degree of Protection) for Junction Box</b>	IP65, IP67, IP68
Wind Load	<b>The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed</b>	Yes
	<b>Compliance to wind velocity test for the Mounting structure of PV System</b>	as per IS 875:1987 part 3 latest
	<b>Regional wind withstand capacity which the Mounting structure of PV system support is suitable to withstand (in Km/Hour)</b>	150
WARRANTY & GUARANTEE	<b>Minimum guarantee for maintaing of out put peak watt capacity</b>	> / = 90% at the end of 10 years and >/= 80% at the end of 25 years, Performance warranty shall not be less than 90% at the end of 12 years and 80% at the end of the 25 years
CERTIFICATIONS	<b>Availability of type test reports for PCU/Inverter, PV Module to prove the conformity of the specifiction from</b>	Central Govt.LAB, MNRE approved Lab, NABL Accredited LAB, BIS approved Lab, ILAC Accredite d lab

**Additional Specification Parameters - Solar Power Plant (Roof Top) For ONGRID System, Three Phase ( 4 set )**

Specification Parameter Name	Bid Requirement (Allowed Values)
SOLAR PLATE CLEANING ARRANGEMENT WITH 5 YEARS AMC	WATER PIPELINE AND TAP TO BE PROVIDED VY VENDOR AT ROOFTOP WITH 5 YEARS AMC
REMOTE MONITORING	SIM BASED REMOTE MONITORING, SIM TO BE PROVIDED BY VENDOR WITH ONE YEAR RECHARGE
NET METERING	NET METERING AND ITS ALL WORKS WITH LIAISON UNDER THE SCOPE OF VENDOR AT ITS OWN COST

\* Bidders offering must also comply with the additional specification parameters mentioned above.

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Deepak Vishwakarma	462011, State Bank of India, Local Head Office, Opposite Maida mill & Income tax office, Hoshangabad Road, Bhopal	4	45

**Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें****1. Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

**2. Buyer Added Bid Specific ATC**

Buyer uploaded ATC document [Click here to view the file.](#)

**Disclaimer/अस्वीकरण**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to



exemption provided to such sellers under GeM GTC.

3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

**---Thank You/धन्यवाद---**