

(Subject to Ahmednagar Jurisdiction only)

**Dr. Vithalrao Vikhe Patil Foundation**

(Vadgaon Gupta), Vilad Ghat, P.O. :- M.I.D.C., Ahmednagar-414 111

Ph. No. (0241) 2778042/2779895 Fax. 2779732

**PURCHASE ORDER**

To, M/s. Aditya Electricals X-10/3, M.I.D.C. Opp. Crompton Greaves Ahmednagar Mob. 9850078884	Ref:- DVVPFA/ PS/COE-elect. maint./2020-21/20/7
	Date :- 25 / 08 / 2020
	Delivery Period :- Immediate
Our Enquiry No.:- ----	Date:- ----
P.C.M. :- ----	Date:- ----
Your Invoice No. :- 158	Date:- 26 / 07 / 2020

Dear Sir,

Please arrange to supply the following material as per terms &amp; conditions mentioned overleaf.

Sr. No.	Description of Material	Quantity	Unit	Rate Rs. Ps.	Per
1.	Supply of: Ceiling Fan 1200mm	64	Nos.	1059.33	No.
2.	20W LED Tube Set	60	Nos.	220.00	No.
3.	Tube Bar 36W	60	Nos.	38.14	No.
4.	EBN 136D Electronic Choke CG	60	Nos.	93.25	No.
5.	Exhaust Fan Drift Air 12" CG	07	Nos.	1144.7	No.

**Note :-** Please send above Material & bill directly to **The Principal,**  
Dr. Vithalrao Vikhe Patil Foundation's **College of Engineering,**  
Vilad Ghat, Ahmednagar

- The above quoted prices are F.O.R.:- Ex-shop
- Taxes :- GST extra as applicable.
- Delivery :- ----
- Payment :- Against delivery.
- Discount :- ----
- Warranty :- ----
- Please sign. The enclosed acceptance No. ---against this order & return the same to us immediately

Purchase Officer

H.O.D.

Accountant

C.A.  
(Fdn.)

Principal

Dy. Director Technical

Director Technical

Secretary General

O/c. Purchase / Store / elect. maint. dept./Account /Account Foundation/Meeting Section



PRINCIPAL

Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

## PURCHASE ORDER

To, <b>M/s. International Electricals</b> S. No. 61/2A+1A, Plot No. 2, Near Venu Weight Bridge, Nagar-Manmad road, Ahmednagar-414111. 0241-2344454, 2353954	Ref:- DVVPFA/ PS/COE- Elect. maint./2021-22/92 / 24
	Date :- 17 / 11 / 2021
	Delivery Period :- Immediate
Our Enquiry No.:- DVVPFA/ PS/COE- Elect.	Date:- 20 / 10 / 2021
P.C.M. :- ----	Date:- ----
Your Quotation No. :- CQ 97	Date 29 / 10 / 2021

Dear Sir,

Please arrange to supply the following material as per terms & conditions mentioned overleaf.

Sr. No.	Description of Material	Quantity	Unit	Rate Rs. Ps.	Per
1.	Supply of: 1.5 sqmm. PVC Copper Wire-1 core, colour – RYBNG, 100 MTR. Coil, make: polycab	10	Bundle	1508.00	Bundle
2.	2.5sqmm PVC Copper Wire, 1 –core, colour RYBNG, 100 mtr. Coil, make: polycab	10	Bundle	2428.00	Bundle
3.	Screw 75/8 SWG	04	Pkt.	120.00	Pkt.
4.	Screw 35/8 SWG	10	Pkt.	55.00	Pkt.
5.	Screw 25/10 SWG coachscrew black	01	Pkt.	300.00	Pkt.
6.	Screw 20/10 SWG coach screw black	02	Pkt.	280.00	Pkt.
7.	Rawal plug grip	50	Pkt.	08.00	Pkt.
8.	PVC Gang Box (2 switch +2 socket) heavy type	120	Nos.	39.75	No.
9.	PVC Gang Box (3 switch +3 socket) heavy type	50	Nos.	57.00	No.
10.	12 MOD SPN D.B. (Horizontal) Double door make: L&T/Schneider	08	Nos.	1150.00	No.
11.	8 MOD SPN D.B. (Horizontal) Double door make: L&T/ Schneider	02	Nos.	950.00	No.
12.	FP. 40A, 30MARCCB Make: L&T/ Schneider	04	Nos.	1885.00	No.
13.	FP, 40A, MCB (Make: L&T/ Schneider	04	Nos.	1119.00	No.
14.	FP 63A, MCB (Make: L&T/ Schneider	04	Nos.	1220.00	No.
15.	SP MCB- 16 Amp make L&T/ Schneider	40	Nos.	108.00	No.
16.	SP MCB-20A (Make L&T/ Schneider	30	Nos.	108.00	No.
17.	SP MCB-25A (Make: L&T/ Schneider	25	Nos.	108.00	No.
18.	1.5 sqmm. PVC Flexible Cable 3-core, Make Polycab	100	Mtr.	51.50	Mtr.
19.	16A, 3-Pin plug (Top) Make: Anchor	10	Nos.	56.50	No.
20.	16A SS Combined with surface box, Make: Anchor	10	Nos.	124.00	No.
21.	Mini Hacksaw Frame(SS)	05	Nos.	60.00	No.
22.	Mini Hacksaw Blade	03	Pkt.	40.00	Pkt.
23.	10sqmm XLPE, 4-Core, Al, Arm cable, Make: Polycab	100	Mtr.	118.00	Mtr.
24.	Al. Lugs -10 sqmm (pin type)	20	Nos.	06.20	No.

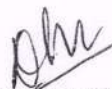


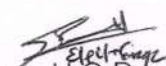
*(Signature)*  
**PRINCIPAL**  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar


Sr. No.	Description of Material	Quantity	Unit	Rate		Per
				Rs.	Ps.	
25	Al. Lugs -16 sqmm (pin type)	25	Nos.	7.76		No.
26	Copper Lugs- 1.5 sqmm (pin type)	50	Nos.	1.58		No.
27	Copper Lugs- 2.5 sqmm (pin type)	100	Nos.	1.50		No.
28	Copper Lugs- 4.00 sqmm (pin type)	40	Nos.	3.85		No.
29	Crimping plier (size: 1.5 to 10sqmm)	01	Nos.	650.00		No.
30	M.S. Saddles-19mm	02	Box	150.00		Box
31	M.S. Saddles-25mm	01	Box	170.00		Box
32	Al. Lugs-16sqmm ring type	15	Nos.	3.05		No.
33	Al. Lugs 25sqmm. (ring type)	10	Nos.	4.05		No.
34	20w LED Tube Light Set	50	Set	174.00		Set
35	2.5 MFD Condensor (Fcos)	40	Nos.	20.00		No.
36	36w Tube Light Ball (CG)	60	Nos.	36.40		No.
37	36w Electronic Choke	60	Nos.	109.00		No.
38	36w PL Tube Side Holder (4- pin)	50	Nos.	25.00		No.
39	Water Proof Rubber	20	Nos.	15.00		No.
40	Drill Bit 5mm. Hammer Type	10	Nos.	55.00		No.
41	Drill Bit Length 12" & size-14mm Hammer Type	01	No.	185.00		No.
42	PVC MCB Box (4-pole type)	05	Nos.	55.00		No.
43	PVC MCB Box (single pole)	10	Nos.	20.00		No.


**Note :-** Please send above Material & bill directly to **The Principal,**  
Dr. Vithalrao Vikhe Patil Foundation's **College of Engineering,**  
Vilad Ghat, Ahmednagar

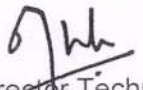
1. The above quoted prices are F.O.R.:- Ex- shop, Ahmednagar.
2. Taxes :- GST extra
3. Delivery :- ----
4. Payment :- Against delivery.
5. Discount :- ----
6. Warranty :- ----
7. Please sign. The enclosed acceptance No. ---against this order & return the same to us immediately

  
Purchase Officer

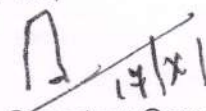
  
H.O.D.

  
Accountant

  
Principal

  
Dy. Director Technical

  
Director Technical

  
Secretary General

O/c. Purchase / Account /Account Foundation/Meeting Section

*elect. mount.*



  
**PRINCIPAL**  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

# MAHAVITARAN

Maharashtra State Electricity Distribution Co. Ltd.

(A Govt. of Maharashtra undertaking)  
CIN: U40109MH2005SGC153645

Phone no: 02412353645  
Fax no: 0241 2344585  
Email: seahmednagar@gmail.com  
Website: www.mahadiscom.in

Office of the, Superintending Engineer,  
O&M Circle, Ahmednagar.  
Old Power House, New Admn. Bldg,  
Station Road, Ahmednagar - 414 001.

808

No. SE/ANRC/TECH/SOLAR/AMR/

No. 19399

Date:

26 NOV 2018

To,  
M/s. Ex Officer Engineering College  
Vilad Ghat, Ahmednagar-414001,  
Tal: Dist: Ahmednagar.  
Con. No. 164879000851

**Sub:-** Permission for connectivity/ installation of roof-top solar PV system of 300 KW for net metering in r/o existing HT consumer M/s. Ex Officer Engineering College Vilad Ghat, Ahmednagar-414001, Dist. Ahmednagar Consumer No. 164879000851

**Ref:-** 01) Your application dt. 13209617/26.09.2018.  
02) T.S. vide SE/ANRC/T/HT/1.3% Normative Charges/ 11 / Dtd. 26.11.18  
03) Load sanction No. 11 Dtd. 26.11.18

Dear Sir,

In view of the Government of Maharashtra notification for new Renewable Policy dated 20.07.2015 and methodology for its implementation on dated 09.09.2015, MERC (Net Metering for Roof-top Solar Photo Voltaic Systems) regulations, 2015 on 10th September, 2015 and circular 258 by MSEDCL for installation of Solar PV systems on Rooftop or any mounting structure by the existing/new consumers of MSEDCL in their premises for captive use so as to align the provisions as per the Regulations, 2014.

The undersigned is pleased to permit for connectivity/ installation of roof-top solar PV system of 300 KW for net metering in r/o existing HT consumer M/s. Ex Officer Engineering College Vilad Ghat, Ahmednagar-414001, Dist. Ahmednagar Consumer No. 164879000851 at the address as mentioned above with the terms and conditions as below.

Particulars	Connected Load KW	Maximum Demand KVA	Purpose
Existing sanctioned Load	450	360	ROOF TOP SOLAR PV
roof-top solar PV system	300		

**This sanction is subject to the following conditions.**

01) **VALIDITY :**

The validity of this load sanction is for the period of six month from the date of issue. You will ensure to make necessary payments within one month, however any upward revision in charges mentioned in this letter are payable by you and further ensure that you are ready for connectivity/ installation of roof-top solar PV system within the period.

The Company reserves the right to revalidate the power sanction subject to the conditions prevailing at the time of

02) **PAYMENTS:**

As you have given consent for executing the works involved for releasing the power supply by paying 1.3 % supervision charges on the estimated cost to MSEDCL, hence permission is hereby granted to execute the works by engaging the Licensed Electrical Contractor (LEC) subject to the terms and conditions which are enclosed with the load sanction order.

**In view of the above, you are requested to pay the following charges.**

Sr. No.	Particulars	Amount in Rs.
a	Fixed Service connection charges	0
b	1.3% charges on estimated cost	NIL
c	Security Deposit	NIL
d	Testing fee of T/F	Will be intimated by testing
	<b>TOTAL Rs. :</b>	<b>NIL</b>

(Rs. NIL only.)

The Xerox copy of payment made may be submitted to this office and the concerned division office under a covering letter and acknowledgement of which may be obtained.

03) **Metering :** as your load is supplied at 11 kV Volts with HT Connection, Net meter will be installed on HT side of Transformer as per MSEDCL rules regulation 7.

C.T. RATIO: -25/5 A, single core, single ratio, Accuracy class: 0.5S, VA burden 10 VA.

PT RATIO: - 11KV/√3/110V/√3, single core, single ratio, Accuracy class: 0.5, VA burden 50 VA.

Dr. Vithalrao Vikhe Patil  
Principal  
College of Engineering  
Ahmednagar



The Eligible Consumer agrees, that he shall install, prior to connection of the Roof-top Solar PV System to the Network of the Licensee, an isolation device (both automatic and in built within inverter and external manual relays); and the Licensee shall have access to it if required for the repair and maintenance of the Distribution Network.

The Eligible Consumer shall furnish all relevant data, such as voltage, frequency, circuit breaker, isolator position in his System, as and when required by the Licensee.

**19) Safety:**

The equipment connected to the Licensee's Distribution System shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS), as the case may be, and the installation of electrical equipment shall comply with the requirements specified by the Central Electricity Authority regarding safety and electricity supply.

The design, installation, maintenance and operation of the Roof-top Solar PV System shall be undertaken in a manner conducive to the safety of the Roof-top Solar PV System as well as the Licensee's Network.

If, at any time, the Licensee determines that the Eligible Consumer's Roof-top Solar PV System is causing or may cause damage to and/or results in the Licensee's other consumers or its assets, the Eligible Consumer shall disconnect the Roof-top Solar PV System from the distribution Network upon direction from the Licensee, and shall undertake corrective measures at his own expense prior to re-connection.

The Licensee shall not be responsible for any accident resulting in injury to human beings or animals or damage to property that may occur due to back-feeding from the Roof-top Solar PV System when the grid supply is off.

The Licensee may disconnect the installation at any time in the event of such exigencies to prevent such accident.

**20) Other Clearances and Approvals:**

The Eligible Consumer shall obtain any statutory approvals and clearances that may be required, such as from the Electrical Inspector or the municipal or other authorities, before connecting the Roof-top Solar PV System to the distribution Network.

**21) Period of Agreement, and Termination:**

This Agreement shall be for a period for **20 years**, but may be terminated prematurely by

- (a) By mutual consent; or
- (b) By the Eligible Consumer, by giving 30 days' notice to the Licensee;
- (c) By the Licensee, by giving 30 days' notice, if the Eligible Consumer breaches any terms of this Agreement or the provisions of the Net Metering Regulations and does not remedy such breach within 30 days, or such other reasonable period as may be provided, of receiving notice of such breach, or for any other valid reason communicated by the Licensee in writing.

**22) Access and Disconnection:**

The Eligible Consumer shall provide access to the Licensee to the metering equipment and disconnecting devices of Roof-top Solar PV System, both automatic and manual, by the Eligible Consumer

If, in an emergent or outage situation, the Licensee cannot access the disconnecting devices of the Roof-top Solar PV System, both automatic and manual, it may disconnect power supply to the premises.

Upon termination of this Agreement under Clause 5, the Eligible Consumer shall disconnect the Roof-top Solar PV System forthwith from the Network of the Licensee.

**23) Liabilities:**

The Parties shall indemnify each other for damages or adverse effects of either Party's negligence or misconduct during the installation of the Roof-top Solar PV System, connectivity with the distribution Network and operation of the System.

The Parties shall not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or goodwill, or for indirect, consequential, incidental or special damages including, but not limited to, punitive or exemplary damages, whether any of these liabilities, losses or damages arise in contract, or otherwise.

**24) Commercial Settlement:**

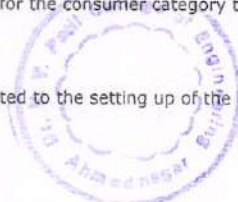
The commercial settlements under this Agreement shall be in accordance with the Net Metering Regulations. The Licensee shall not be liable to compensate the Eligible Consumer if his Rooftop Solar PV System is unable to inject surplus power generated into the Licensee's Network on account of failure of power supply in the grid/Network.

- 25) The existing metering System, if not in accordance with the Net Metering Regulations, shall be replaced by a bi-directional meter (whole current/CT operated) or a pair of meters (as per the definition of 'Net Meter' in the Regulations), and a separate generation meter may be provided to measure Solar power generation. The bi-directional meter (whole current/CT operated) or pair of meters shall be installed at the inter-connection point to the Licensee's Network for recording export and import of energy. The uni-directional and bi-directional or pair of meters shall be fixed in separate meter boxes in the same proximity.

- 26) The Licensee shall issue monthly electricity bill for the net metered energy or the scheduled date of meter reading. If the exported energy exceeds the imported energy, the Licensee shall show the net energy exported as credited Units of electricity as specified in the Net Metering Regulations, 2015. If the exported energy is less than the imported energy, the Eligible Consumer shall pay the Distribution Licensee for the net energy imported at the prevailing tariff approved by the Commission for the consumer category to which he belongs.

**27) Connection Costs:**

The Eligible Consumer shall bear all costs related to the setting up of the Roof-top Solar PV System, excluding the Net Metering Arrangement costs.



  
**PRINCIPAL**  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar



## महाराष्ट्र शासन

अधीक्षक अभियंता यांचे कार्यालय

प्रादेशिक विद्युत निरीक्षण मंडळ, उद्योग, ऊर्जा व कामगार विभाग  
शिवदास ट्रेड सेंटर, प्लॉट नं.११, हॉल नं.४, पहिला मजला, त्रिमुर्ती चौक, जवाहर कॉलनी,  
हेडगेवार हॉस्पिटल रोड, औरंगाबाद-४३१००५

दुरध्वनी- ०२४०-२९७०४३२

E-mail- eleinsabad.se@gmail.com

जा.क्र.अनिऔ/सअअ/ २६/२०१८ दिनांक :- १४/०६/२०१८

seaurangabad.nrg-mh@gov.in

To,

M/s.Dr.Vithalrao Vikhe Patil Collage of Engineering,  
Vadgaon Gupta, Vilad Ghat,  
Post MIDC Ahmednagar  
Tq. & Dist.Ahmednagar.

**विषय :-** Plan Approval of 300 KWp Net Metering Solar PV Powe- Project of M/s.Dr.Vithalrao Vikhe Patil  
Collage of Engineering,Vadgaon Gupta, Vilad Ghat,Post MIDC Ahmednagar, Tq. & Dist.Ahmednagar

**संदर्भ :-** 1) Your Letter 1595, Date .-04.06.2018

महोदय,

आपण सादर केलेल्या नकाशांना खालील अटीवर मंजूरी देण्यात येत आहे.

- विज संचमांडणीचे संपुर्ण काम केलेल्या नकाशानुसार अनुज्ञाप्तीधारक विज ठेकेदाराकडूनच करवुन घ्यावे.
- विद्युत ठेकेदाराने विज संचमांडणीचे काम सुरु केल्याची सुचना या कार्यालयास दिल्याची खात्री करुन घ्यावी.
- मंजूर नकाशाप्रमाणे काम पुर्ण करुन निरीक्षणाकरीता ऑनलाईन पध्दतीने कॉलसोबत खालील प्रमाणे कागदपत्रे सादर करण्यात यावे
  - विजसंच मांडणी केल्याबाबत व चाचण्या घेतल्याबाबतचा उपरोक्त विज ठेकेदाराचा परिक्षण अहवाल.
  - भुचाचणी अहवाल (अर्थ टेस्ट रिपोर्ट)
  - वीजसंच मांडणीतील सर्व विद्युत उपकरणांचे उत्पादकांचे चाचणी अहवाल.
- निरीक्षणाचे वेळेस विजसंचमांडणीमध्ये दोष आढळुन आल्यास तसे फेरबदल करुन घेणे संबधी आदेश देण्याचे अधिकार या कार्यालयाकडे राखुन ठेवण्यात आलेले आहेत.
- निरीक्षणाचे वेळेस निरीक्षण अधिका-यासमक्ष खालील व्यक्तींनी उपस्थित राहणे आवश्यक आहे.विजसंचमांडणीचे काम पुर्ण करणारे विद्युत ठेकेदार व त्यांचे पर्यवेक्षक आणि आपले सक्षम विद्युत अभियंता.
- काम पुर्ण झाल्यावर विद्युत संचमांडणीचा कंप्लीशन प्लान सादर करावा व तसेच प्रॉटेक्शन स्कीम सादर करावी, हयानंतर विज संचमांडणीचे निरीक्षण करण्यात येईल.
- प्रबंध संचालकाने सर्व विद्युत सुरक्षा नियम पाळण्यात येतील हयाचे लेखी अभिवेदन सादर करावे.
- विज संचमांडणीमध्ये भविष्यात कोणतेही फेरबदल करावायाचे असल्यास ते हया कार्यालयाची पूर्वपरवानगी घेवुनच करावे व हे काम पारवानाधारक कंत्राटदाराकडूनच करण्यात यावे.
- सादर नकाशा मंजुरी एक (०१) वर्षापर्यंत ग्राह्य राहील.
- नकाशावर नमुद केलेल्या अटीस अधीन राहुन नकाशा मंजुरी देण्यात येत आहे.
- आपल्या सोलार संचावर किती युनिट विज निर्मिती करतात हयाची माहिती दर महिन्यास विद्युत निरीक्षक,अहमदनगर / नाशिक यांना कळविण्यात यावी तसेच शासनाने निर्गमित केलेल्या प्रचलित नियमानुसार आपणास लागू असल्यास विद्युत शुल्क भरावे लागेल
- सदरील सोलार संचाची मुख्य विद्युत निरीक्षक,मुंबई यांच्या कार्यालयात नोंदणी करुन नोंदणी प्रमाणपत्र हया कार्यालयास व संबधीत विद्युत निरीक्षक कार्यालयास सादर करावी.
- Earthing shall be as per IS 3043 & IEEE80
- Feasibility certificate from MSECL be submitted



(वि.व.नागदेव)

अधीक्षक अभियंता,  
प्रादेशिक विद्युत निरीक्षण मंडळ  
उ.ऊ.व का.विभाग,औरंगाबाद

सोबत :- मंजूर नकाशा (०१ प्रतीत)

पत्र :- विद्युत निरीक्षक, विद्युत निरीक्षण विभाग, उद्योग ऊर्जा व कामगार विभाग, अहमदनगर यांना माहितीस्तव अग्रेषित



PRINCIPAL  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar



महाराष्ट्र शासन

अधीक्षक अभियंता यांचे कार्यालय

प्रादेशिक विद्युत निरीक्षण मंडळ, उद्योग, ऊर्जा व कामगार विभाग  
शिवदास ट्रेड सेंटर, प्लॉट नं.११, हॉल नं. ४, पहिला मजला, त्रिमुर्ती चौक, जवाहर कॉलनो,  
हेडगेवार हॉस्पिटल रोड, औरंगाबाद-४३१००५



दुरध्वना- ०२४०-२९७०४३२

जा.क्र.अअनिऔ/सअअ/ ३०४ /२०१८ दिनांक: २७/०६/२०१८

E-mail- eleinsabad.se@gmail.com

seaurangabad.nrg-mh@gov.in

भारतीय विज अधिनियम २००३ नुसार व केंद्रीय विद्युत प्राधिकरण विनियम २०१० नुसार विनियम ४३ अंतर्गत या संबंधित नियमाप्रमाणे M/s Shree Energy Solutions, Pune, M.C.34978, Supervisor Name: Puranik Meghesh, M.S. No.52944 यांनी प्रमाणित केलेल्या संचमांडणीचे दि.२५.०६.२०१८ रोजी निरीक्षण करण्यांत आलेले आहे. खालील विवरणाच्या संचमांडणीस विद्युत पुरवठा जोडून कार्यान्वीत करण्यासाठी केंद्रीय विद्युत प्राधिकरण विनियम २०१० नुसार विनियम ४३ च्या अंतर्गत व विज अधिनियम २००३ च्या कलम १६२ अन्वये प्रदान केलेल्या अधिकारानुसार कायम परवानगी देण्यात येत आहे. या संचमांडणीत विज पुरवठा जोडल्याचा दिनांक या कार्यालयास त्वरीत कळविण्यात यावा.

**विद्युत संचमांडणीचे विवरण :-** 300 KWp Roof Top Net Metering Solar Power Project with allied equipment :-

SR No.	Name of Equipment	Make	Equipment Serial no.	Rating	Qty
1	Solar PV Modules	RenewSys	As per list attached	325Wp	924 Nos.
2	Solar Inverters	ABB	1812114804, 1812114822, 1815119139, 1815119156, 1816119983, 1816119993	50KW	06 Nos.
3	Solar Generation Mater	Secure	D1013453	ELITE 440-445	01 No.
4	Solar ACDB Panel	Saitech Electricals	---	4P, 630A	01 No.
5	DC Cable	Siechem	---	1Cx4Sqmm UV Protected DC Solar cable	6000 Mtr
6	AC Cable	Polycab	NA	4C x 25 Sqmm Cu. Armoured Cable	80 Mtr
7	AC Cable	Polycab	NA	3.5C x 240 Sqmm Al. Armoured Cable	400 Mtr
8	Lightening Arrester	TOP BOSS	1621	70KA	01 No.

At M/s.Dr.Vithalrao Vikhe Patil Collage of Engineering, Vadgaon Gupta, Vilad Ghat, Tq.&Dist.Ahmednagar.

- ही संचमांडणी वेळोवेळी शासनाने सुधारित केलेल्या केंद्रीय विद्युत प्राधिकरण विनियम २०१० नुसार विनियम ४३ प्रमाणे धोक्यापासून सुरक्षित राहिल ह्याची ग्राहक/पुरवठाकार नेहमी काळजी घेतील. त्यावर कोणताही विद्युत अपघात झाल्यास ग्राहक/पुरवठाकार जबाबदार राहतील.
- वरील संचमांडणीचे ह्या कार्यालयाकडून वार्षिक निरीक्षण करण्यात येईल. तरी त्यासाठी संबंधित निरीक्षण करणाऱ्या अधिका-यास योग्य चाचण्या घेण्यासाठी घेण्यासाठी उपकरणाची व्यवस्था करावी लागेल.
- वरील संचमांडणीचे केंद्रीय विद्युत प्राधिकरण विनियम २०१० नुसार विनियम क्रं.३,१९,२९ च्या अंतर्गत अधिकृत व परवानाधारक व्यक्तीतर्फेच पूर्ण सुरक्षिततेच्या साधनांचा अवलंब करून देखभाल व दुरुस्ती केली पाहिजे.
- ही परवानगी मिळाल्यानंतर वरील संचमांडणी ६ महिन्यांपर्यंत जर कार्यान्वीत झाली नाही तर परवानगी रद्द होईल. यास्तव संचमांडणीचे पुर्ननिरीक्षण करून नवीन परवानगी पत्र प्राप्त करून घ्यावे लागेल.
- ह्या संचमांडणीत कोणतेही बदल या कार्यालयाच्या लेखी परवानगी शिवाय करता येणार नाही.
- ह्या संचमांडणीवर कोणताही विद्युत अपघात झाल्यास महाराष्ट्र शासनाची अधिसूचना क्रं.इएलडी/२०१२ प्र.क्र.८६/उजं-१ दि १७/०४/२०१३ प्रमाणे विद्युत निरीक्षकास २४ तासांच्याआत तोंडी व ४८ तासांच्या आत लेखी सूचना विहीत नमुन्यात देण्यात यावी.
- सदर परवानगी दोष पुर्ततेच्या अधिन राहून देण्यांत येत आहे.
- आपल्या सोलार संचावर किती युनिट विज निर्मिती करतात ह्याची माहिती दर महिन्यास विद्युत निरीक्षक, अहमदनगर/नाशिक यांना कळविण्यात यावी तसेच शासनाने निर्गमित केलेल्या प्रचलित नियमानुसार आपणास लागू असल्यास विद्युत शुल्क भरावे लागेल
- सदरील सोलार संचाची मुख्य विद्युत निरीक्षक, मुंबई यांच्या कार्यालयात नोंदणी करून नोंदणी प्रमाणपत्र ह्या कार्यालयास व संबंधीत विद्युत निरीक्षक कार्यालयास सादर करावी.



[वि.व.नागदेव]

अधीक्षक अभियंता,  
प्रादेशिक विद्युत निरीक्षण मंडळ  
उ.ऊ.व.का.विभाग औरंगाबाद.

प्रत : मे.डॉ.विठ्ठलराव विखे पाटील कॉलेज ऑफ इंजिनिअरींग, वडगांव गुप्ता, विलाड घाट, ता.वि. अहमदनगर यांना माहितीस्तव.

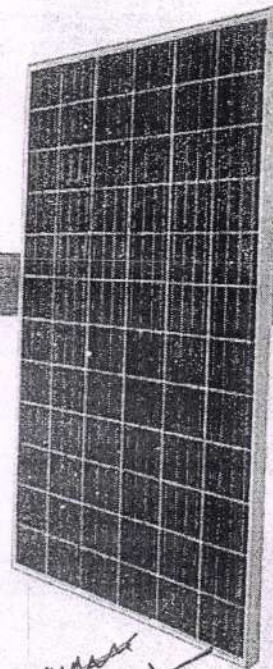
प्रत : विद्युत निरीक्षक, विद्युत निरीक्षण विभाग, अहमदनगर यांना माहितीस्तव.



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Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

# RenewSys®

let there be light



## DESERV™

3M6- 300/305/310/315/320/325

DESERV 3M6 72 cells PV Modules Series are offered with power ratings ranging from 300 Wp to 325 Wp. The high performance Multi Crystalline Silicon Modules are designed for on-grid as well as off-grid applications.

### KEY FEATURES



Made in India



PID resistant



Positive power tolerance

25  
YEARS

Limited power output warranty



Highly reliable Anti-reflective coated glass

10  
YEARS

Product warranty



Windspeed - 2400 Pa  
Snowload - 5400 Pa



IP67 Junction box



1000 V Vdc



IEC Certified - 61215, 61730, TS 62804, 61853  
IEC 61701 (Salt mist corrosion resistant- Severity 6)\*  
IEC 62716 (Ammonia corrosion resistant)  
UL Certified 1703  
IEC 60068-2-68 (Sand Abrasion)  
Listed in Dewa

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IMS Certified Company (ISO 9001:2015 & OHSAS 18001:2007)

*Approved*  
*Deserv*  
*(27/4/18)*

*27/04/2017*

Performance under standard test conditions  
(1000W/m<sup>2</sup> AM 1.5, 25°C)

	DESERV 3M6-300	DESERV 3M6-305	DESERV 3M6-310	DESERV 3M6-315	DESERV 3M6-320	DESERV 3M6-325
Rated power (P <sub>max</sub> ), Wp	300	305	310	315	320	325
Max power voltage (V <sub>mp</sub> ), V	36.52	36.75	36.86	36.92	37.20	37.41
Max power current (I <sub>mp</sub> ), A	08.22	08.30	08.41	08.55	08.61	08.69
Open circuit voltage (V <sub>oc</sub> ), V	45.65	45.94	46.08	46.15	46.18	46.21
Short circuit current (I <sub>sc</sub> ), A	08.56	08.65	08.76	08.91	09.06	09.18
Module efficiency (%)	15.48	15.74	16.00	16.26	16.51	16.77

Operating Conditions

Ambient temperature, °C	-40 to +85
Maximum system voltage, Vdc	1000
Hail impact velocity, m/sec	23
Maximum surface load capacity, Pascals	5400

Cell Temperature Coefficients

Open circuit voltage	-0.30 % / °C
Short circuit current	+0.05 % / °C
Nominal power	-0.40 % / °C

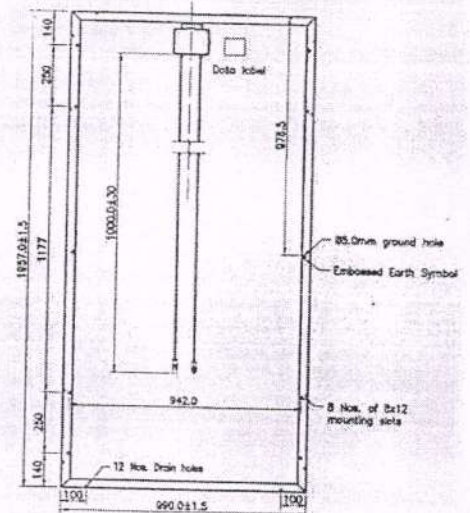
Physical Parameters

No. of cells	72
Module dimensions (mm)	1957 X 990
Module thickness (mm)	40
Approximate weight (kg)	21.5

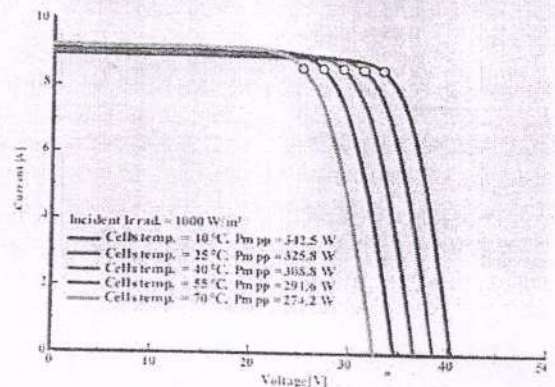
Mechanical Characteristics

Cable	NO. 12 AWG, 4mm <sup>2</sup> (1 m standard, 1.2 m available on request)
Pv connectors	MC4/MC4 (Compatible)/TYCO
Frame	Anodized Aluminum Alloy
Junction box	IP67 Junction Box With 4 Rail
Glass	3.2mm Thick Low Iron Tempered (4mm available on request)

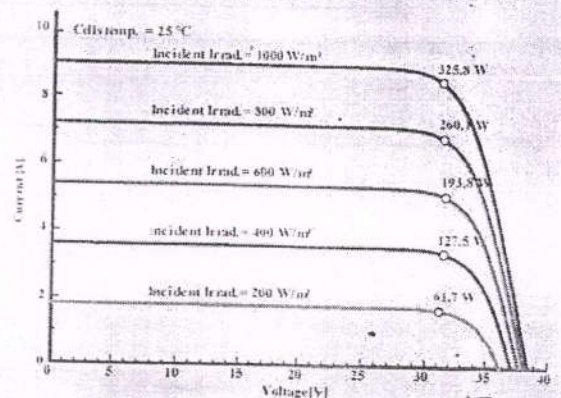
72 Cells PV Solar Module Dimensions



PV modules: RenewSys, DESERV 3M6- 325



PV modules: RenewSys, DESERV 3M6- 325



Registered Office

98, Jolly Maker Chambers No.2, 225 Nariman Point, Mumbai - 400 021, Maharashtra, India  
Tel.: + 91 22 30040500

Factory

Plot No.5, Survey # 114/P, Srinagar Village, Maheshwaram Mandal, Dist-Rangareddy, Hyderabad - 501 359, Telangana, India.  
Tel.: +91 40 67303000 Fax: +91 40 67303003



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27/11/18

*Dr. Vikhe*  
28/04/2018

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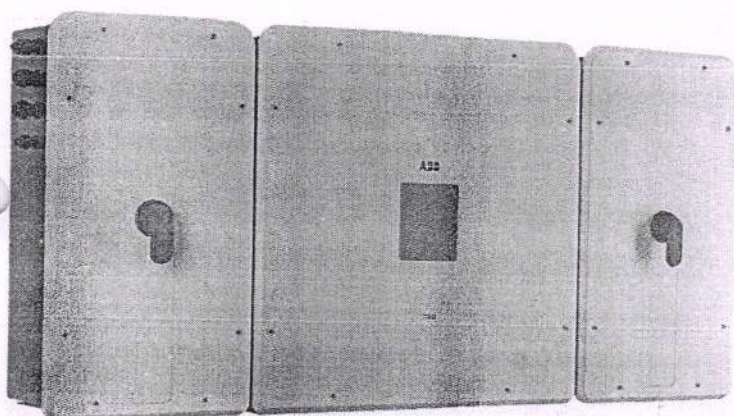
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## SOLAR INVERTERS

### ABB string inverters

TRIO-TM-50.0-400 / TRIO-TM-60.0-480

50 to 60 kW



01

01 TRIO-TM-50.0/60.0 outdoor string inverter

This new addition to the TRIO family, with 3 independent MPPT and power ratings of up to 60 kW (480 V version), has been designed with the objective to maximize the ROI in large systems with all the advantages of a decentralized configuration for both rooftop and ground-mounted installations.

#### Modular design

The TRIO-TM-50.0/60.0 has a modular design to guarantee maximum flexibility, thanks to the different versions available.

The separate and configurable AC and DC compartments increase the ease of installation and maintenance with their ability to remain separately wired from the inverter module inside the system. The TRIO comes with the most complete wiring box configurations available including up to 15 DC inputs with fast connectors, string protection fuses, AC and DC switches and type II AC and DC surge arresters.

#### Design flexibility

The double stage conversion topology offers the advantage of a wide input voltage range for maximum flexibility of system design.

The TRIO-TM comes with a forced air cooling system, used also in the previous TRIO products, designed for a simple and fast maintenance, allowing a maximum flexibility of plant design. The inverter comes with mounting supports for both horizontal and vertical installations, which allow for the best use of space available beneath the solar panels.

Embedded multi communication interfaces (WLAN,

The TRIO-TM-50.0/60.0 is ABB's latest three-phase string solution for cost efficient large decentralized photovoltaic systems for both commercial and utility applications.

Ethernet, RS485) combined with a Sunspec compliant Modbus protocol (RTU/TCP) allow the inverter to be easily integrated with any third party monitoring and control systems.

#### Improved commissioning and maintenance

Thanks to the built-in Web User Interface (WUI) the installer can commission the inverter wirelessly and change advanced parameters by using any standard WLAN enabled device (smartphone, tablet or PC).

Integrated logging capability allows remote monitoring of the plant without the need of any additional external loggers.

Remote firmware update of the inverter system and components via Aurora Vision\*.

#### Highlights

- 3 Independent MPPT
- Transformerless inverter
- Double stage topology for a wide input range
- Large set of specific grid codes available which can be selected directly in the field
- Separate AC and DC compartments are available in different configurations
- Both vertical and horizontal installation
- 2 available sizes, 50 and 60 kW with 400 and 480 Vac of output voltage, respectively
- Wireless access to embedded user interfaces
- Ethernet daisy chain enabled
- Modbus TPC/RTU Sunspec compliant
- Remote monitoring and firmware update via Aurora Vision\* (logger free)

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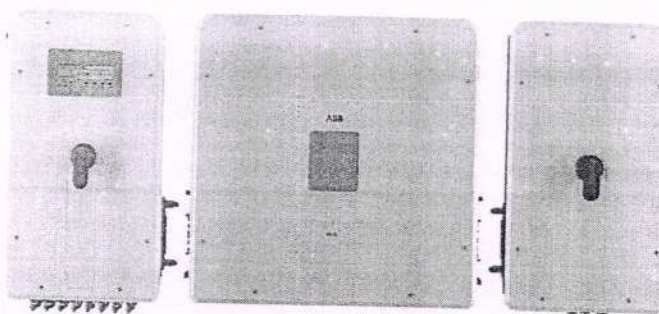
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# ABB string inverters

TRIO-TM-50.0-400

TRIO-TM-60.0-480

50 to 60 kW



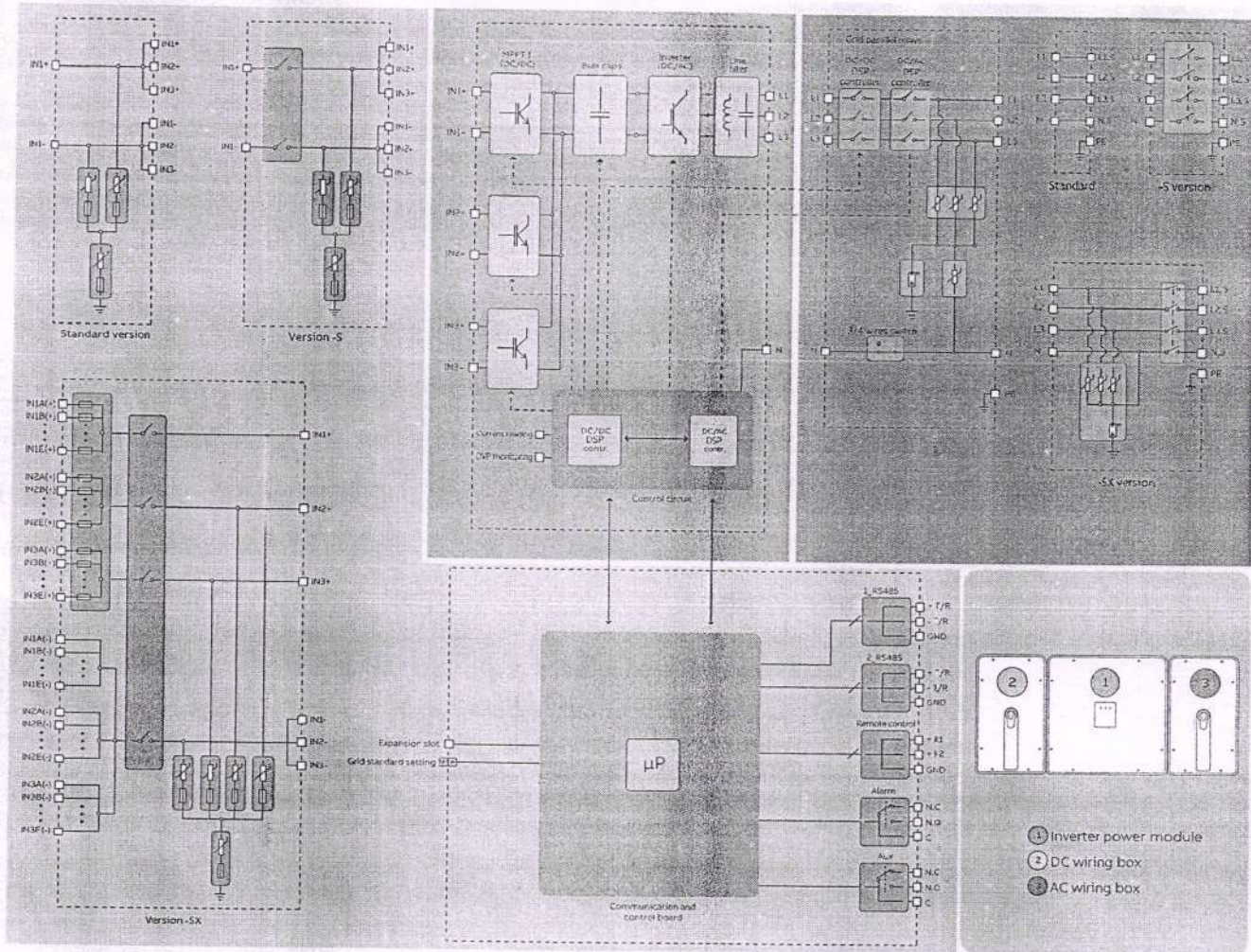
## Technical data and types

Type code	TRIO-TM-50.0-400	TRIO-TM-60.0-480
Input side		
Absolute maximum DC input voltage ( $V_{max,abs}$ )	1000 V	
Start-up DC input voltage ( $V_{start}$ )	420...700 V (Default 420 V)	420...700 V (Default 500 V)
Operating DC input voltage range ( $V_{dcmin}...V_{dcmax}$ )	0,7x $V_{start}$ ...950 V (min 300 V)	0,7x $V_{start}$ ...950 V (min 360 V)
Rated DC input voltage ( $V_{dc}$ )	610 Vdc	720 Vdc
Rated DC input power ( $P_{dc}$ )	52000 W	61800 W
Number of independent MPPT	3	
Maximum DC input power for each MPPT ( $P_{MPPT,max}$ )	17500 W	21000 W
MPPT input DC voltage range ( $V_{MPPTmin}...V_{MPPTmax}$ ) at $P_{dc}$	480-800 Vdc	570-800 Vdc
Maximum DC input current ( $I_{dc,max}$ ) for each MPPT	36 A	
Maximum input short circuit current for each MPPT	55 A (165 A in case of parallel MPPT)	
Number of DC input pairs for each MPPT	5	
DC connection type	Screw terminal block (Standard and -S version) or PV quick fit connector <sup>3)</sup> (-SX and SX2 version)	
Input protection		
Reverse polarity protection	Yes, from limited current source	
Input over voltage protection for each MPPT - varistor	Yes, 1 for each MPPT	
Input over voltage protection for each MPPT - plug in modular surge arrester	Type 2 (option) with monitoring	
Photovoltaic array isolation control	According to local standard	
DC switch rating for each MPPT (version with DC switch)	60 A / 1000 V for each MPPT (180 A in case of parallel MPPT)	
Fuse rating (version with fuses)	15 A / 1000 V	
Output side		
AC grid connection type	Three-phase (3W+PE or 4W+PE)	
Rated AC power ( $P_{acr} @ \cos\phi=1$ )	50000 W	60000 W
Maximum AC output power ( $P_{aomax} @ \cos\phi=1$ )	50000 W	60000 W
Maximum apparent power ( $S_{max}$ )	50000 VA	60000 VA
Rated AC grid voltage ( $V_{acr}$ )	400 V	480 V
AC voltage range	320...480 V <sup>1)</sup>	384...571 V <sup>2)</sup>
Maximum AC output current ( $I_{ac,max}$ )	77 A	
Contributory fault current	92 A	
Rated output frequency ( $f_r$ )	50 Hz / 60 Hz	
Output frequency range ( $f_{min}...f_{max}$ )	47...53 Hz / 57...63 Hz <sup>2)</sup>	
Nominal power factor and adjustable range	> 0.995; 0...1 inductive/capacitive with maximum $S_{max}$	
Total current harmonic distortion	<3%	
Maximum AC cable	95 mm <sup>2</sup> copper only (150 mm <sup>2</sup> copper/aluminum with TRIO-AC-WIRING-KIT)	
AC connection type	Screw terminal block, cable gland PG42	
Output protection		
Anti-islanding protection	According to local standard	
Maximum external AC overcurrent protection	100 A	
Output overvoltage protection - varistor	Yes	
Output overvoltage protection - plug in modular surge arrester	Type 2 (option) with monitoring	
Operating performance		
Maximum efficiency ( $\eta_{max}$ )	98.3%	98.5%
Weighted efficiency (EURO)	98.0% / -	98.0% / -
Communication		
Embedded communication interfaces	2x RS485, 2x Ethernet (RJ45), WLAN (IEEE802.11 b/g/n @ 2,4 GHz)	
Communication protocols	Modbus RTU / TCP (Sunspec compliant); Aurora Protocol	
Remote monitoring services	Standard level access to Aurora Vision monitoring portal	
Advanced features	Integrated Web User Interface Display (option); Embedded logging and direct transferring of data to Cloud	
Environmental		
Ambient temperature range	-25...+60°C (-13...140 °F)	-25...+60°C (-13...140 °F)
Relative humidity	with derating above 45 °C (113 °F)	with derating above 45 °C (113 °F)
Sound pressure level, typical	4% ... 100% condensing	
Maximum operating altitude	75 dB(A) @ 1 m	
Physical	2000m / 6561ft	
Environmental protection rating	IP65 (IP54 for cooling section)	
Cooling	Forced air	
Dimension (H x W x D)	725 mm x 1491 mm x 315 mm / 28.5" x 58.7" x 12.4"	
Weight	95 kg / 209 lbs overall, 66 kg / 145 lbs electronic compartment, 15 kg / 33 lbs AC wiring box (full optional), 14 kg / 31 lbs DC wiring box (full optional)	
Mounting system	Wall bracket, horizontal support	



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ABB TRIO-TM-50.0-400 / TRIO-TM-60.0-480 string inverter block diagram



## Technical data and types

Type code	TRIO-TM-50.0-400	TRIO-TM-60.0-480
Safety	Transformerless	
Isolation level	CE	
Marking	IEC/EN 62109-1, IEC/EN 62109-2, EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12	
Safety and EMC standard	CEI 0-21, CEI 0-16, DIN V VDE V 0126-1-1, VDE-AR-N 4105, G59/3, EN 50438 (not for all national appendices), RD 1699, RD 413, RD 661, P.O. 12.3, AS 4777, BDEW, NRS-097-2-1, MEA, PEA, IEC 61727, IEC 60068, IEC 61683, VFR-2014, IEC 62116	
Grid standard (check your sales channel for availability)		
Available product variants		
Inverter power module	TRIO-TM-50.0-400-POWER MODULE	TRIO-TM-60.0-480-POWER MODULE
DC wiring box options <sup>4)</sup>		
Input connections with terminal blocks	DCWB-TRIO-TM-50.0-400	DCWB-TRIO-TM-60.0-480
Input connections with terminal blocks + DC switch	DCWB-S-TRIO-TM-50.0-400	DCWB-S-TRIO-TM-60.0-480
15 quick input connections + fuses (single pole) + DC switch <sup>5)</sup>	DCWB-SX-TRIO-TM-50.0-400	DCWB-SX-TRIO-TM-60.0-480
15 quick input connections + fuses (both poles) + DC switch <sup>5)</sup>	DCWB-SX2-TRIO-TM-50.0-400	DCWB-SX2-TRIO-TM-60.0-480
AC wiring box options		
AC output connections with terminal blocks	ACWB-TRIO-TM-50.0-TL-OUTD	ACWB-TRIO-TM-60.0-TL-OUTD
AC output connections with terminal blocks + AC switch <sup>5)</sup>	ACWB-SX-TRIO-TM-50.0-TL-OUTD	ACWB-SX-TRIO-TM-60.0-TL-OUTD
Optional available		
TRIO-GROUNDING-KIT	Available	Available
TRIO-AC-WIRING-KIT	Available	Available

<sup>4)</sup> The AC voltage range may vary depending on specific country grid standards.

<sup>5)</sup> The Frequency range may vary depending on specific country grid standards.

Please refer to the document "String Inverters - Product manual appendix" available at [www.abb.com/solarinverters](http://www.abb.com/solarinverters) for information on the quick-fit connector brand and model used in the inverter.

<sup>4)</sup> DCWB with display is available as optional, with dedicated wiring box version.

<sup>5)</sup> Type 2 surge arresters available as optional, with dedicated wiring box version. Remark: Features not specifically listed in the present data sheet are not included in the product.



Dr. Vithalrao Vikhe Patil  
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Date: 11<sup>th</sup> August 2018

To,  
The Secretary General,  
Dr Vithalrao Vikhe Patil Foundation,  
Ahmednagar, MS - 414111

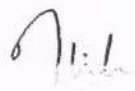
**Sub: 300Kwp Solar Power Generating System.**

- Ref: 1: Purchase Order: DVVPFA/PS/COE/255 dated 31<sup>ST</sup> Jan 2018.  
2: Invoice No: 180016955 dated 26<sup>th</sup> June 2018.  
Invoice No: 180017651 dated 29<sup>th</sup> June 2018.

Sir,



Reference to purchase order, received the tax invoices for the  
aforementioned work. We have paid advance as per the terms of the purchase  
order. The tax invoices be adjusted accordingly and balance paid to the party, as  
per terms of PO.

Request to kindly inform the concerned department accordingly.

  
Sunil Kalhapure  
Dy Director (Tech)

Dr Vithalrao Vikhe Patil Foundation,  
Ahmednagar



*Accountant  
Engg college  
for necessary action*  
  
14/08/2018  
  
PRINCIPAL  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

**Bosch Limited**

Plot No. 63, Bommasandra-Jigani Link Road Industrial Area,  
Rajapur, Village, Jigani Hobli,  
Annekal Tq, Bangalore - 562106 India

Original for recipient



Page 1 of 1

**Details of Consignee(Ship-to)**

Dr Vithalrao Vikhe Patil Foundation  
Vadgaon Gupta(Vilad Ghat)  
P.O MIDC  
Ahmednagar-414111  
GSTIN-27AAATP2304C1Z5  
State Code:27#Maharashtra

**Details of Receiver(Bill-to)**

Dr Vithalrao Vikhe Patil Foundation  
Vadgaon Gupta(Vilad Ghat)  
P.O MIDC  
Ahmednagar-414111  
GSTIN-27AAATP2304C1Z5  
State Code:27#Maharashtra

**TAX INVOICE**

Tax Invoice Number	180016955
Date of Tax Invoice	26.06.2018
CIN	L85110KA1951PLC000761
PAN	AAACM9840P
GSTIN	29AAACM9840P1ZP
Contact person of Acc.	
Bosch Document Number	155500447
Supplier Code	
Customer Code	17026951
Your PAN	AAATP2304C
P.O. No. & Date :	DVVPFA/PS/COE/255/31.01.2018

Delivery Terms	DAP-Delivered at place	Payment Terms	P298-10% Adv,80% Prorate,5% on install,5%on commission
Insurance		Freight	
LR No		Vehicle No	
Carrier		No of Packages /Weight-	00000/20,306.000KG
Header Note	300kWp Solar Power Generating System.		

Sl No	Material / Description	Quantity	Unit	Rate/Unit	Taxable Value/INR
01	F002.Y38.052-KC8	923.000	PC	7,623.16	7,036,176.68
			Subsidy	0.00	2,179,574.00-
			Integrated GST	5.00%	242,830.00
	Description	Solar PV Module Poly-325Wp-72C			
	Customer Part No		HSN/SAC Code	85414011	
	Delivery Number	1183705805	PO No & Date	DVVPFA/PS/COE/255/31.01.2018	
			Total Taxable Value		4,856,602.68
			Tax Amount		242,830.00
			Total Value		5,099,432.68
	Amount In Words	Two Lakh Forty Two Thousand Eight Hundred Thirty Rupees			
	Tax Amount-INR:	Fifty Lakh Ninety Nine Thousand Four Hundred Thirty Two Rupees Sixty Eight Paise:			
	Total Value-INR:				

21/8/18 सेन्ट  
3.45 PM. काजगी



PRINCIPAL

Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

For Bosch Limited

Authorised Signatory

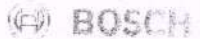
WHETHER TAX IS PAYABLE ON REVERSE CHARGE BASIS: NO

Cheques should be made payable to Bosch Limited., Duly crossed "Account Payee Only" Payment should be made within due date as applicable from the date of dispatch of materials

BANKERS: State Bank of India, Canara Bank, Citi Bank, Deutsche Bank AG

Registered Office : Hosur Road, Adugodi, Bangalore - 560030, India Phone: 080-22220088, 22992111, Telefax: 080-22272728

PLOT no 267 Bommasandra-Jigani Link Road Industrial Area,  
Rajapur Village, Jigani Hobli,  
Annekal Tq, Bangalore - 562106 India



## Details of Consignee(Ship-to)

Dr Vithalrao Vikhe Patil Foundation  
Vadgaon Gupta(Vilad Ghat)  
P.O MIDC  
Ahmednagar-414111  
GSTIN-27AAATP2304C1Z5  
State Code:27#Maharashtra

## Details of Receiver(Bill-to)

Dr Vithalrao Vikhe Patil Foundation  
Vadgaon Gupta(Vilad Ghat)  
P.O MIDC  
Ahmednagar-414111  
GSTIN-27AAATP2304C1Z5  
State Code:27#Maharashtra

## TAX INVOICE

Tax Invoice Number 180017651  
Date of Tax Invoice 29.06.2018  
CIN L85110KA1951PLC000761  
PAN AAACM9840P  
GSTIN 29AAACM9840P1ZP  
Contact person of Acc.  
Bosch Document Number 155500461

Supplier Code 17026951  
Customer Code AAATP2304C  
Your PAN DVVPFA/PS/COE/255/31.01.2018  
P.O. No. & Date :

## Delivery Terms

DAP-Delivered at place

## Payment Terms

P298-10% Adv,80% Prorate,5% on install,5%on  
comm ssion

## Insurance

LR No

Carrier

Header Note

300kW Solar Power Generating System.

## Freight

Vehicle No

No of Packages /Weight-

00000/450.000KG

SI No	Material / Description	Quantity	Unit	Rate/Unit	Taxable Value/INR
01	F002.Y39.780-KC8	6.000	PC	489,615.17	2,937,691.02
			Subsidy	0.00	909,999.00-
			Integrated GST	5.00%	101,385.00

## Description

Customer Part No

Delivery Number

Solar String Inverter 50kW-ABB

1183708585

HSN/SAC Code

PO No &amp; Date

85044010

DVVPFA/PS/COE/255/31.01.2018

Total Taxable Value

Tax Amount

Total Value

2,027,692.02

101,385.00

2,129,077.02

Amount In Words

Tax Amount-INR:

Total Value-INR:

One Lakh One Thousand Three Hundred Eighty Five Rupees

Twenty One Lakh Twenty Nine Thousand Seventy Seven Rupees Two Paise:

WHETHER TAX IS PAYABLE ON REVERSE CHARGE BASIS: NO



*V. V. Patil*  
PRINCIPAL  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

For Bosch Limited

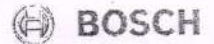


Authorised Signatory

\*e payable to Bosch Limited., Duly crossed "AccountPayee Only" Payment should be made within due date as applicable from the date of dispatch of materials

Canara Bank,Citi Bank,Deutsche Bank AG

ad, Adugodi, Bangalore - 560030, India Phone:080-22220088,22992111,Telefax:080-22272728

**sch Limited**

10 263, Bommasandra-Jigani Link Road Industrial Area,  
 pura Village, Jigani Hobli,  
 kel Tq, Bangalore - 562106 India

**TAX INVOICE****Details of Consignee(Ship-to)**

/ithalrao Vikhe Patil Foundation  
 gaon Gupta(Vilad Ghat)  
 MIDC  
 nednagar-414111  
 TIN-27AAATP2304C1Z5  
 e Code:27#Maharashtra

Tax Invoice Number 180020888  
 Date of Tax Invoice 16.07.2018  
 CIN L85110KA1951PLC000761  
 PAN AAACM9840P  
 GSTIN 29AAACM9840P1ZP  
 Contact person of Acc.  
 Bosch Document Number 155500484

**Details of Receiver(Bill-to)**

/ithalrao Vikhe Patil Foundation  
 gaon Gupta(Vilad Ghat)  
 MIDC  
 nednagar-414111  
 TIN-27AAATP2304C1Z5  
 e Code:27#Maharashtra

Supplier Code 17026951  
 Customer Code AAATP2304C  
 Your PAN DVVPFA/PS/COE/255 /31.01.2018  
 P.O. No. & Date :

**Delivery Terms** DAP-Delivered at place  
**Payment Terms** P298-10% Adv,80% Prorate,5% on install,5%on commission  
**Freight** Vehicle No 00000/0.000KG  
**No of Packages /Weight-**  
**Insurance** 300kW Solar Power Generating System.

Sl No	Material / Description	Quantity	Unit	Rate/Unit	Taxable Value/INR
	F002.Y41.596	1.000	PC	2,581,950.00	2,581,950.00
			Subsidy	0.00	799,802.00
			Integrated GST	5.00%	89,107.00
	<b>Description</b> BOS and Electrical Accessories				
	<b>Customer Part No</b> 1183725256		<b>HSN/SAC Code</b> 8502		
	<b>Delivery Number</b> F002.Y41.597		<b>PO No &amp; Date</b> DVVPFA/PS/COE/255 /31.01.2018		
		1.000	PC	742,971.00	742,971.00
			Subsidy	0.00	230,148.00
			Integrated GST	18.00%	92,308.00
	<b>Description</b> MS/HDG Structure and Accessories				
	<b>Customer Part No</b> 1183725256		<b>HSN/SAC Code</b> 73089090		
	<b>Delivery Number</b> F002.Y41.598		<b>PO No &amp; Date</b> DVVPFA/PS/CCE/255 /31.01.2018		
		1.000	PC	614,038.00	614,038.00
			Subsidy	0.00	190,209.00
			Integrated GST	28.00%	118,672.00
	<b>Description</b> Other Installation Accessories				
	<b>Customer Part No</b> 1183725256		<b>HSN/SAC Code</b> 39269099		
	<b>Delivery Number</b>		<b>PO No &amp; Date</b> DVVPFA/PS/COE/255 /31.01.2018		
			<b>Total Taxable Value</b>		2,718,800.00
			<b>Tax Amount</b>		300,087.00
			<b>Total Value</b>		3,018,887.00

Amount In Words: Three Lakh Eighty Seven Rupees  
 Amount-INR: Thirty Lakh Eighteen Thousand Eight Hundred Eighty Seven Rupees:  
 Total Value-INR:

Stores & Acc for mfg  
 July

**COEA**  
 Inward No: 6450  
 Date: 15/08/18



**PRINCIPAL**  
 Dr. Vithalrao Vikhe Patil  
 College of Engineering  
 Ahmednagar

For Bosch Limited  
 Authorised Signatory

WHETHER TAX IS PAYABLE ON REVERSE CHARGE BASIS: NO

V. Rangnatha  
 15/08/18

Payments should be made payable to Bosch Limited. "Duly crossed" AccountPayee Only" Payment should be made within due date as applicable from the date of dispatch of materials

Bankers: State Bank of India, Canara Bank, Citi Bank, Deutsche Bank AG

Registered Office: Hosur Road, Adugodi, Bangalore - 560030, India Phone: 080-22220088, 22992111, Telefax: 080-22272728

**Bosch Limited**

Plot no 263, Bommasandra-Jigani Link Road Industrial Area,  
Rajapura Village, Jigani Hobli,  
Annekol Tq, Bangalore - 562106 India

**TAX INVOICE****Details of Receiver(Bill-to)**

Dr Vithalrao Vikhe Patil Foundation  
Vadgaon Gupta(Vilad Ghat)  
P.O MIDC  
Ahmednagar 414111  
GSTIN-27AAATP2304C1Z5  
State Code:27#Maharashtra  
Country of Destination India

Tax Invoice Number 180020935  
Date of Tax Invoice 12.07.2018  
CIN L85110KA1951PLC000761  
PAN AAACM9840P  
GSTIN 29AAACM9840P1ZP  
Contact person of Acc.  
Bosch Document Number 144914124

Supplier Code 17026951  
Customer Code AAATP2304C  
Your PAN DVVPFA/PS/COE/255/31.01.2018  
P.O. No. & Date :

**Delivery Terms** DAP-Delivered at place **Payment Terms** P29810% Adv,80% Prorate,5% on install,5%on commission-  
**Project NO** **Kind Attention** **Original Invoice** **Header Note**  
300KWp Solar Power Generating System. **Invoice Date** 00.00.0000

SI No	Material / Description	Quantity	Unit	Rate/Unit	Taxable Value/INR
01	F002.Y41.001	1.000	PC	1,494,070.00	1,494,070.00
			Subsidy	0.00	462,813.00
			Integrated GST	18.00%	185,626.00
	<b>Service Description</b>	Installation & Commissioning			
	<b>Customer Part No</b>	998732			
	<b>HSN/SAC Code</b>				

Total Taxable Value 1,031,257.00  
Tax Amount 185,626.00  
Total Value 1,216,883.00

Amount In Words One Lakh Eighty Five Thousand Six Hundred Twenty Six Rupees  
Tax Amount-INR: Twelve Lakh Sixteen Thousand Eight Hundred Eighty Three Rupees:  
Total Value-INR:

Dr. V. V. Patil College of Engineering  
Ahmednagar

**COEA**  
Inward No: 653  
Date: 16/8/18



Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

WHETHER TAX IS PAYABLE ON REVERSE CHARGE BASIS: NO

For Bosch Limited

V. Ranganatha M  
Kish



Authorised Signatory

Cheques should be made payable to Bosch Limited, Duly crossed "Account Payee Only" Payment should be made within due date as applicable from the date of dispatch of materials

ANKERS: State Bank of India, Canara Bank, Citi Bank, Deutsche Bank AG

Registered Office: Hosur Road, Adugodi, Bangalore - 560030, India Phone: 080-22220088, 22992111, Telefax: 080-22272728

**DR. VITHALRAO VIKHE PATIL FOUNDATION**

Vadgaon Gupta (Vilad Ghat), P. O. - M.I.D.C.,  
Ahmednagar - 414 111. (Maharashtra)

Ph. No. : (0241) 2778206, 2779895  
Email : vikhef@rediffmail.com

Tel.Fax No. : (0241) 2778043  
Website : pdvvpfa.org



Ref No. : DVVPFA/PS/COE/255/149

Date : 31/01/2018

Bosch Limited,  
Regd. Off:  
P.B.No.3000, Citadel 3rd Floor,  
Hosur Road, Aduodi,  
Bangalore-560030

**Purchase Order for Engineering, Procurement and Construction of 300 kWp Grid Tied Solar PV Power Plant.**

Kind Attn: Mr. Chandan Singh (Regional Manager)

Subject: Supply of Solar PV Components for 300Kwp Roof Top Solar PV System

Ref: Binding Commercial offer submitted by Bosch limited (your offer letter, dated: 20th Jan 2018 & quotation, dated: 18th Jan 2018)

Dear Sir,

Referring to the offer please find the purchase order for Supply of Components for 300kWp RCC Roof Top Solar PV System as per the Annexure 1-5 enclosed.

Kindly provide the signed copy of the Purchase Order as a token of acceptance.

**Delivery Address:**

Dr. Vithalrao Vikhe Patil Foundation's College of Engineering,  
Vadgaon Gupta, Vilad Ghat, Post: MIDC, Ahmednagar-414 111

**Invoicing Address:**

The Principal, Dr. Vithalrao Vikhe Patil Foundation's College of Engineering,  
Vadgaon Gupta, Vilad Ghat, Post: MIDC, Ahmednagar-414 111



Your's faithfully,

*(Signature)*

Authorised Signatory and Seal  
**Secretary General**

Dr. Vithalrao Vikhe Patil Foundation  
Vadgaon Gupta (Vilad Ghat), Ahmednagar  
Enclosures:-

- Annexure 1 : Breakup of Purchase Order
- Annexure 2 : Payment Terms
- Annexure 3 : Scope of Purchase Order
- Annexure 4 : Preliminary Bill of material
- Annexure 5 : Warranty Terms and Conditions

P.D. V.V.P.F. A' Nagar	
Office Superintendent	Principal
Vice-Principal	
Office Superintendent	

A/c

*(Signature)*

PRINCIPAL  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

7/12/18  
7/12/18

**DR. VITHALRAO VIKHE PATIL FOUNDATION**Vadgaon Gupta (Vilad Ghat), P. O. - M.I.D.C.,  
Ahmednagar - 414 111. (Maharashtra)Ph. No. : (0241) 2778206, 2779895  
Email : vikhef@rediffmail.comTel.Fax No. : (0241) 2778043  
Website : pdvvpfa.orgRef. No. :  
Purchase Order No. :

Date :

**Annexure 1 : Breakup of Purchase Order****Supply Price for 300 KWp Roof Top Solar PV System Components**

ITEMS/ DESCRIPTION	CODE	AMOUNT	Subsidy Amount	After Subsidy	GST %	GST INR	Customer Payable
Solar Power Generating System- Solar PV Modules	85414011	7,036,179	2,179,574	4,856,605	5.0%	242,830	5,099,435
Solar Power Generating System- Solar Inverters	85044010	2,937,691	909,999	2,027,692	5.0%	101,385	2,129,077
Solar Power Generating System- Balance of System and Electrical Accessories	8502	2,581,950	799,802	1,782,148	5.0%	89,107	1,871,255
Solar Power Generating System- MS/HDG Structure and Accessories	73089090	742,971	230,148	512,823	18.0%	92,308	615,131
Solar Power Generating System- Other Accessories	39269099	614,038	190,209	423,830	28.0%	118,672	542,501
Installation, Testing and commissioning of Solar Power Generating System	998732	1,494,070	462,813	1,031,257	18.0%	185,626	1,216,884
<b>Total Price</b>		<b>15,406,899</b>	<b>4,772,545</b>	<b>10,634,354</b>		<b>329,928</b>	<b>11,474,283</b>

Customer Payable After Subsidy (Including Taxes) :- Rs. One Crore Fourteen Lakh Sixty Four Thousand Two Hundred &amp; Eighty three only.

**Other terms & conditions (Inclusive in above price)**

1. One person for M/s. BOSCH for plant operation & maintenance for one year.
2. Performance Bank Guarantee for 10% of generation at current tariff for period of one year.
3. Structure Galvanization upto 100 micron, but we will be using galvium sheets which are per galvanized as discussed.
4. One Signage/Digital Display Board at one location displaying plant generation and details on real time basis.

**Bank Details:-**

Account Name	BOSCH LIMITED
Bank :	DEUTSCHE Bank
Bank Address :	No. 2-17, Raheja Towers, M G Road, Bangalore-560001
Current Account No.	2050300004
IFSC code for RTGS/NEFT	DEUT0797BGL



*(Signature)*  
PRINCIPAL  
Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

*(Signature)*  
Secretary General  
Dr. Vithalrao Vikhe Patil  
Authorized Signatory and Seal

**DR. VITHALRAO VIKHE PATIL FOUNDATION**Vadgaon Gupta (Vilad Ghat), P. O. - M.I.D.C.,  
Ahmednagar - 414 111. (Maharashtra)

Ph. No. : (0241) 2778206, 2779895

Email : vikhef@rediffmail.com

Tel.Fax No. : (0241) 2778043

Website : pdvvpfa.org



Ref. No. :

Date :

Purchase Order No. :

**Annexure 2 : Payment Terms**

The General payment terms are proposed below

Sr.No.	Our Proposed Payment Terms
1	<b>Payment Terms</b> 1. Amount Equivalent to 10% of the Order value as Project advance through Cheque/Demand Draft/RTGs infavour of Bosch Limited. 2. 90% LC (Letter Of Credit) from Nationalized Bank Terms of LC disbursement : a. Amount equivalent to 80% of the Order Value on pro-rate basis against material readiness and Proforma Invoice/Commercial invoice. b. Amount equivalent to 10% of the total Order Value against i. Commissioning of Solar PV System. ii. CEIG Certificate
2	<b>Taxes and Duties</b> a) Solar PV Modules : 5% GST b) MMS : 18% GST c) BOS : Components of solar power generating system : 5% d) Other BOS components not falling under the ambit of solar power generating system: 28% e) Service: 18% is applicable on the service component Taxes are considering GST rates as per applicability with the current understanding and data available. We have taken up with MNRE for GST of 5% on Solar Power Generating System but clarity is yet to come. Based on clarification which emerges later, actual GST will be charges at the time billing The price offered is based on prevailing rates, taxes and duties. Any impact in price increase/decrease due to change in rates, taxes, duties, antidumping duties, change infresh law, statutory rule or order shall be borne by the Customer.
3	<b>Time of Completion</b> Solar PV Components shall be delivered within 3 months from the Effective Date as defined above. We agree that within seven (7) working days from the Effective Date (Agreement signing date) the following actions (Prerequisites) shall be concluded in sequence failing which revised dates of commissioning of the Project will be mutually agreed to between the Parties : a) Release of advance amount of Rs. 1146428.50 Or 10% of consideration amount by the Customer. b) Issuance of ' Notice to Proceed' (NTP) by the Project Owner to Contractor. c) Access to unencumbered dispute free roof/land is provided to Contractor by the Customer.



Secretary General  
 Authorised Signatory and Sealatic  
 Vadgaon Gupta (Vilad Ghat), Ahmednagar

**DR. VITHALRAO VIKHE PATIL FOUNDATION**

Vadgaon Gupta (Vilad Ghat), P. O. - M.I.D.C.,  
Ahmednagar - 414 111. (Maharashtra)



Ph. No. : (0241) 2778206, 2779895  
Email : vikhef@rediffmail.com

Tel.Fax No. : (0241) 2778043  
Website : pdvvpfa.org

Ref. No. :

Date :

Purchase Order No. :

**Annexure 3 : Scope of Purchase Order**

**The broad scope of work under M/s. Bosch Limited includes the following:**

- Supply of the Solar PV Modules and arrays with associated components comprising of DC cables, String Inverters, Mounting Structures, AC Cables, Communication Cables, Remote Monitoring, Weather Monitoring System, Earthing System and Lightning Arrestor at power plant with necessary packaging and transportation.
- Supply of the suitable fire protection equipment's as per the statutory requirements.
- Supply of danger board, sign-boards etc. as per the statutory needs.
- Water piping for Module cleaning from the nearest water availability point on roof.

**Exclusion to the Purchase Order :**

- Car Port Structure/Elevated Structure on the rooftop.
- Construction of Stair/Ladder to access roofs' terrace, Walkway and Handrails.
- Any modification in the Existing LT Panels for evacuating Solar Power Plant
- Spare Feeder supply for connecting solar power plant. Reverse Power Relay/Protection System to avoid reverse power flow to Diesel Genset.
- Fencing, control room, access roads and drainage.

**The broad scope of work under our scope includes the following:**

- Fees in form of DD/Bank Guarantees towards all the Statuaries Approvals shall be paid by us.
- All the Statutory approvals are on our account.
- We shall provide unhindered roof access to install and operate solar roof top system with clear approach for 5 years
- We agree that there is no obstacle for the shadow free area to install solar
- We shall provide the approach road for material movement.
- Identification and procurement/lease of roof/land for setting up of power plant including tree cutting and any other existing infrastructure removal on roof.
- Identification of nearest LT-Panel for Power evacuation and connectivity approvals
- NOC from Gram Panchayat/statutory authority wherever required
- Approach roads for transport of goods from the nearest motorable road to Project Site.
- Construction Power and Water on each terrace for installation & Operational maintenance for 5 years.
- Provision of Water Source on Roof Terrace with 4 to 5 Bar Pressure including pressure pump for module cleaning system.
- Any Modification in the Existing Infrastructure like roof strengthening, step-up transformer, associated switchgears, cables, CT, PT's.
- Internet Connection and associated cost to be provided by Project Owner along with Static IP for remote monitoring of Solar PV System.
- Net Metering to be done by Bosch but payment not linked to Net-metering
- AC cabling above 100 mtrs is in customer scope.



PRINCIPAL

Dr. Vithalrao Vikhe Patil  
College of Engineering  
Ahmednagar

Secretary General  
Dr. Vithalrao Vikhe Patil Foundation  
Vadgaon Gupta (Vilad Ghat), Ahmednagar

Authorised Signatory and Seal

**DR. VITHALRAO VIKHE PATIL FOUNDATION**Vadgaon Gupta (Vilad Ghat), P. O. - M.I.D.C.,  
Ahmednagar - 414 111. (Maharashtra)

Ph. No. : (0241) 2778206, 2779895

Email : vikhef@rediffmail.com

Tel.Fax No. : (0241) 2778043

Website : pdvvpfa.org

Ref No. Purchase Order No. :

Date :

Sr. No.	Item	Specification/Description	Qty	UOM	Make
1	01-SPV Module	325 Wp, 72 Cells, Poly Crystalline Module with 1000 mm length module cable certified as per UL or IEC 61215 Edition -II and IEC 61730-1, & -2.	92	Nos.	Adani/Renewsys
2	02-MMS	Module Mounting Structure as per SECI Standard	1 Set	kWp	Bosch
3	03-Inverters	String Inverter 50kVA,400V AC,MPPT	06	Nos.	ABB
4	04-Data Logger	Web Based Monitoring System (Interconnection Connection with Static IP to be provided by Customer)	01	Nos.	Delta
5	04-Sensors	Cell Based Irradiation Sensors	01	Nos.	MC
6	05-LT Panel	LT Panel with Incomer(4P,100A,MCB, OC,SC Release) and 1 Outgoing,300A,4P,MCB,OC,SC Release, SPD Type-II, MFM Meters, IP65 Enclosure.	1	Set	Reputed
7	07-Connectors	Straight Through +Ve and -Ve PV Connectors for Stringing	60	Sets	MC4/Amphenol
8	08-DC Cable	1CX4Sq.mm,Copper,EBXLPO,1.5kV,Solar Cable for String Interconnection and connect upto Inverter Input	2500	Mtrs	Siechem/Apar
9	09-AC Cable	AC CABLE - 4Cx25Sq.mm, Cu.XLPE 1.1Kv	75	Mtrs	Siechem/Apar
10	10-LT Cable	3.5Cx240Sq.mm, Aluminum Armored, XLPE,1.1kV as per IS 694 complete all as specified and directed. (LT Panel to Customer Main LT)	50	Mtrs	Siechem/Apar
11	13-BOS	Safety Items , Fire Extinguisher, Danger Boards, First Aid Kit, Safety Chart, Sign Boards	150	kWp	Bosch Approved
12		Communication Cable, 2 Pair , RS485 Shielded	200	Mtrs	Apar/Siechem/Polyca b
13		Lightning Arrestor - ESE/Conventional Type	1	Nos.	JEF/JMV/SGI
14		Chemical Earthing with Chambers	06	Nos.	JEF/JMV/SGI
15		Installation Accessories like Lugs, Conduits , Glands , Insulators , Trays and Supports	300	kWp	Bosch Approved
16		Module Cleaning System with CPVC Pipes and Fittings	300	kWp	Bosch Approved
17	14-Installation & Commissioning	Installation, Testing , Commissioning and Hand over of complete Solar Power Plant	300	kWp	Bosch Approved

Note : The specification and make of the components and quantity shall change during Detailed Engineering as per the requirement



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Ref. No. :

Purchase Order No. :

Date :

## Annexure 5 : Warranty Conditions

Bosch Limited provides warranty for material and workmanship of various components supplied as a part of the solar PV power plant, whereas System warranty for workmanship of installation and performance of the system. The conditions of these warranties are elaborated in this document:

### A) Product Warranty :

#### Warranty for PV Module :

- 5 years product warranty
- 25 years performance guarantee ( 90% up to 10 years, 80% up to 25 years)

#### Warranty for Solar Inverter :

- 10 years product warranty

### B) Warranty for Balance of System items

- 5 year from the date of supply in accordance with the warranty conditions of the used inverters.
- Warranty for the structural safety and stability of the mounting system for a period of 5 year.

Until the end of the warranty period plus the operating period of the Project, Bosch shall have access right to all parts of the plant and to the reports on its work and output.


- Parts and components, which are repaired or replaced during such period, are warranted for the original warranty period only and will not carry any extended warranty. If the equipment is not repairable at site the same has to be sent at the workshop on freight prepaid basis after obtaining consent from Bosch in writing and Bosch shall make good the defect and return back to the Customer.
- For the components which are bought out by Bosch and supplied to the project, the warranty shall be applicable as per the original manufacturer's warranty only and shall be transferred to the final customer upon supply of the components.


### C) Workmanship Warranty :

Workmanship related warranties are as below:

1. Electric installation works such as interconnection of strings, connection of string combiner boxes, AC/DC Cables, power evacuation infrastructure shall carry warranty for 60 months.
2. Structural safety and stability of the mounting system shall be covered for a period of 60 months.



  
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## D) Conditions of Warranty

### 1. General Conditions :

1. Claims arising from or in connection with this warranty must be filed in writing within the applicable warranty period. No extension of warranty period shall be provided, regardless of legal basis.
2. Until the end of the warranty period, Bosch Limited shall have an access right to all parts of the plant, reports on its working and output.
3. The final customer shall be responsible to ascertain any warranty claims directly with the original manufacturer as per the limited warranty certificate from original manufacturer. However if Bosch Limited has been contracted for operation and maintenance services, then under the contract period, Bosch Limited shall liaise between the final customer and original equipment manufacturer for valid warranty claims.
4. The disputes pertaining to this project shall be subjected to Bangalore Jurisdiction only.

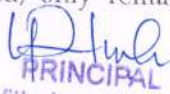
### E) Disclaimers/Limitations of Liability :

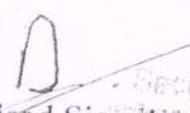
1. These warranties are valid for normal use and only under normal operating conditions. The warranties assume that the performance of the system has not been reduced by actions or events outside the sphere of influence of Bosch Limited, in particular.
2. Modifications/damage as a consequence of force majeure (storms, hail, fire, power outage, lightning, flood, snow damage, avalanches, frost, earthquakes, tornadoes, volcanic eruptions, landslides, plagues of insects and other detrimental effects by animals, acts of war etc.) or damage caused by third parties due to vandalism or theft.
3. Unprofessional operation, improper removal and/or re-installation of modules, willful damage or negligence, normal wear and tear, improper installation and/ or maintenance by final customer or a third party, misuse or abuse of equipment, modifications or alterations made by customer or a third party without consent from Bosch.
4. Impairment due to external influences (e.g. : dirt, smoke, salt, chemicals and other impurities)
5. Warranty cannot be transferred to a third party without prior consent from Bosch Limited.
6. Notwithstanding anything contained in this Agreement or any of its annexures and schedules, the liability of Bosch for any loss suffered by the Customer and or any breach of conditions of this Agreement and its annexures and or the termination of this Agreement shall not exceed 2% of the total order value.

### F) Warranty Claims :

7. In case of warranty claims, Bosch Limited shall remedy the defects, co-ordinate without original manufacturers for replacement of components with functional ones or repair the same component, as per the limited warranty conditions of the original manufacturer.
8. No other claim shall be derived from this warranty.
9. For components newly supplied for repaired, only remaining time of original time of original warranty shall be applicable.



  
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