

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

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Website www.mahadiscom.in

E-mail cemmcmsedcl@gmail.com

Office of the Chief Engineer

Material Management Cell

Plot No. G - 9, Prakashgad, 1st FL

Prof. A K Marg, Bandra (East),

Mumbai - 400 051.

No. CE/MMC/MSC-I/ 29811

Date: 19/12/2018

To,

The Chief Engineer,

Bhandup/Kalyan/Konkan/Nashik/Kolhapur/Pune/Baramati/Latur/Nanded/Jalgaon/
Aurangabad/Akola/Amravati/Gondia/Chandrapur/Nagpur.

Sub : Approved vendor of LT Capacitors required for Agriculture pumps.

Ref :1) Circular No. ED/Comm/Reactive Power/22384 dt. 15.09.17.

2) CE/MMC/MSC-I/27875 dt. 29.11.18.

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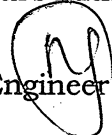
As you are aware that reactive power management with capacitor banks particularly in Ag dominated area is most neglected part by Ag consumers, it is hereby instructed to conduct the program to create awareness among the Ag consumers regarding their responsibility & importance of Capacitor for quality of supply.

As per the action plan circulated vide circular No. ED/Comm/Reactive Power/22384 dt. 15.09.17, M.M. Cell has approved GTP & Drawings of LT Capacitors of rating 1kVAR to 6kVAR of M/s. Nayan Engineering Industries, Sangli vide letter under reference No. 2. The copy of the letter alongwith the approved GTP & Drawings are attached herewith.

As the role of individual Agriculture consumer is most important to maintain power factor at their installations, the field staff should ensure availability of above make capacitors at local electrical shops/stores for sale so that Ag consumers can purchase & install the same on their pump sets.

Encl: As above

Yours faithfully,


Chief Engineer (M.M. Cell)

Copy s.w.rs. to:

1. Director(Operations)/(Projects)/(Commercial), MSEDCL, Mumbai.
2. Jt. Managing Director, MSEDCL, Aurangabad.
3. Regional Director, MSEDCL, Nqgpur/Pune/Konkan.
4. Executive Director (Dist.-II)/Commercial/Infra/Projects, MSEDCL, Mumbai.
5. C.E. Commercial/Dist./Infra/IPDS, MSEDCL, Mumbai.

Copy to:

1. All superintending Engineer, O&M Circle, MSEDCL.
2. M/s. Nayan Engineering Industries, 190/191, Vasant Dada Ind. Estate, Sangli-416 416.
3. As per mailing list.

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Material Management Cell

Plot No. G - 9, Prakashgad, 1st FL

Prof. A K Marg, Bandra (East),

Mumbai - 400 051.

No. CE/MMC/MSC-I/ 27875

Date: 29/11/2018

To,

M/s. Nayan Engineering Industries,
190/191, Vasant Dada Ind. Estate,
Sangli - 416416.

Sub: Vendor approval proposal of M/s. Nayan Engineering Industries, Sangli for supply of LT Capacitors of rating 1 kVAR to 6 kVAR for Agriculture pumps.

- Ref: 1) Your letter No. Nil dt. 05.04.18 received vide CE (M.M. Cell) No. 439 dt. 10.04.18.
 2) This office mail dt. 07.05.18.
 3) Letter No. CE/MMC/MSC-I/13777 dt. 04.06.18.
 4) Your letter No. Nil dt. 04.07.18 received vide CE (M.M. Cell) No. 794 dt. 05.07.18.
 5) Type Test reports verified with original on dt. 31.07.18 & 03.08.18.
 6) Your letter No. -120/17-18 dt. 03.08.18 received vide CE (M.M. Cell) No. 949 dt. 03.08.18.
 7) Testing Fees paid receipt received through E Mail dt. 31.08.18.

Sirs,

Your proposal for supply of LT Capacitors of rating 1 kVAR to 6 kVAR for agriculture pumps is received to this office vide letter under reference No. 1.

The details of drawings submitted are as follows:

Sr. No.	Name of Drawing	Drawing No.
1.	1 KVAR AND 2 KVAR / 440V/3PHASE /50Hz BOX RESIN FILLED CAPACITOR UNIT DRAWING	01
2.	3 KVAR AND 4 KVAR / 440V/3PHASE /50Hz BOX RESIN FILLED CAPACITOR UNIT DRAWING	02
3.	5 KVAR AND 6 KVAR / 440V/3PHASE /50Hz BOX RESIN FILLED CAPACITOR UNIT DRAWING	03

The GTP and Drawings for LT Capacitors of rating 1 kVAR to 6 kVAR are found generally in order with relevant IS 13340 (2012).

The details of the Type Test reports submitted for 10 kVAR Capacitors are as follows:

Sr. No.	Name of Type Test	Type Test report No., Date & Laboratory Name
1.	Voltage Test between terminals	Nil dt. 29.04.17 at Factory of Nayan Engineering Industries, Sangli
2.	Voltage Test between terminals & container	
3.	Measurement of the tangent of the loss angle (tan delta) of the capacitor at elevated temperature	

Sr. No.	Name of Type Test	Type Test report No., Date & Laboratory Name
4.	Thermal stability test	Nil dt. 29.04.17 at Factory of Nayan Engineering Industries, Sangli
5.	Discharge Test	
6.	Self Healing Test	
7.	Ageing Test	HPLI/Test/1802086901 dt. 11.06.18 at Hi Physix Laboratory India Pvt. Ltd., Pune
8.	Destruction Test	

The above Type Test reports for 10 kVAR Capacitors are found generally in order with relevant IS 13340 (2012).

In view of the above, the proposal submitted by you for supply of LT Capacitors of rating 1 kVAR to 6 kVAR shall be considered subject to following terms & conditions:

- 1) This approval of GTP, Drawings & Type Tests for LT Capacitor of rating 1 kVAR to 6 kVAR will not be considered for any ongoing or future tender technical/commercial evaluation for procurement in MSEDCL.
- 2) This approval shall be considered for requirement of Capacitors for Agriculture pumps.
- 3) The firm should maintain same design & construction of LT Capacitor of rating 1 kVAR to 6 kVAR strictly in accordance with the approved GTP, Drawings & Type Tests and IS 13340 (2012) only.
- 4) "Guaranteed Technical Particulars of LT Capacitor of rating 1 kVAR to 6 kVAR should be strictly in accordance with the IS 13340 (2012) (amended up to date).
- 5) This approval of GTP, Drawings & Type Tests shall not relieve you from your responsibility and liability to ensure correctness of the Drawings & correct interpretation for meeting the requirements as specified in the relevant IS".
- 6) This approval is valid upto 5 years from the date of Type Test reports.
- 7) The complete Type Tests carried out at NABL should be submitted & get approved from this office otherwise this approval will be cancelled.

Thanking you.

Encl: One set of approved GTP & Drawings

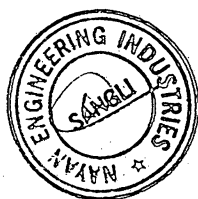
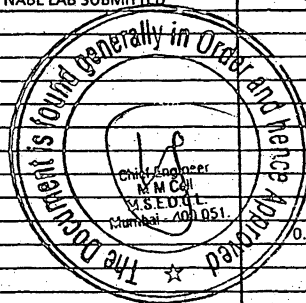
Yours faithfully,

Chief Engineer (M.M. Cell)

GURANTEED TECHNICAL PARTICULARS FOR LT CAPACITORS

1KVAR

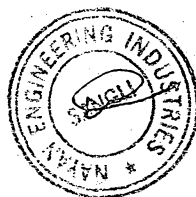
TITLE	SR NO.	PARAMETER	PARAMETER TYPE
General Technical Details	1	NAME OF MANUFACTURER	NAYAN ENGINEERING INDUSTRIES (SANGLI)
	2	CAPACITOR MODEL NAME	"HRHEEM POWER"
	3	KVAR	1KVAR
	4	APPLICABLE STANDARDS	IS 13340-2012
	5	RATED VOLTAGE	440V
	6	FREQUENCY	50HZ
	7	TEMP CATEGORY	-10°C To +55°C
	8	SHAPE	BOX
	9	RATED CURRENT	1.31 AMP
	10	DIE ELECTRIC TYPE	MPP
	11	FILM THICKNESS	6 TO 7 MICRON
	12	TYPE OF IMPREGNANT	NPCB RESIN FILLED
	13	SAFETY FEATURE- OVER PRESURE DISCONNECTOR	PROVIDED
	14	RATED CAPACITY OF ELEMENT TO BE USED (3 X MICROFARAD)	3 ELEMENT OF 5.5 MFD (8.25 MFD BETWEEN 2 PHASES)
	15	CAPACITANCE TOLERANCE (AS PER IS)	-5% +10%
	16	LIFE EXPECTED IN HOURS	100000hrs
	17	DISCHARGE TIME	75 volts or less with in 3min
	18	CAPACITOR LOSS WITH CABLE & DISCHARGE RESISTER	.75 watt/kvar with cable & discharge resister
	19	CAPACITOR LOSSES IN WATTS/ KVAR	0.6 watt/kvar excluding cable & discharge resister
Test and Certification	20	WHETHER TYPE TEST REPORT AS PER CLAUSE NO 6.2 OF IS3340 FROM NABL LAB SUBMITTED	Yes Test Report Submitted For 10 KVAR
	21	ISI CERTIFICATE NUMBER	CM/L-7622675
	22	VOLTAGE PROOF TEST	AS PER IS 13340-2012 PART-1
	22A	TEST VOLTAGE BETWEEN TERMINAL	2.15 X UN FOR 10SEC
	22B	TEST VOLTAGE BETWEEN TERMINAL & CONTAINER	3KV FOR 1 MIN
	23	PERMANENT OVER VOLTAGE (Ur)	AS PER IS 13340-2012 PART 1
	23A	UPTO 8 HRS Daily	1.1 X Rated Voltage 440v
	23B	UPTO 30 MIN Daily	1.15 X Rated Voltage 440v
	23C	UPTO 5 MIN	1.2 X Rated Voltage 440v
	23D	UPTO 1 MIN	1.3 X Rated Voltage 440v
Mechanical and Termination	24	MATERIAL OF CONTAINER & THICKNESS IN MM	0.5MM MS CAN WITH POWDER COATING
	25	DIMENSIONS OF CAPACITORS (L x W x H)	86mm x 43mm x 93mm
	26	WEIGHT OF CAPACITOR	0.5 KG
	27	MOUNTING DETAILS	MOUNTING CLAMP ON BODY
	28	CABLE PROVIDED IN R MTR	0.25 METER (0.5 sq mm)
	29	CAPACITOR FAILURE INDICATOR	Pop-up Indication Provided
	30	CAPACITOR CAP PROVIDED OR NOT	TOP COVER PROVIDED
	31	SUITABLE EARTHING TERMINAL PROVIDED (YES/NO)	YES



GURANTEED TECHNICAL PARTICULARS FOR LT CAPACITORS

2KVAR

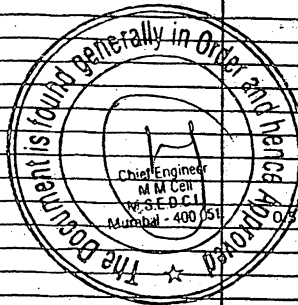
TITLE	SR NO.	PARAMETER	PARAMETER TYPE
General Technical Details	1	NAME OF MANUFACTURER	NAYAN ENGINEERING INDUSTRIES (SANGLI)
	2	CAPACITOR MODEL NAME	"HRHEEM POWER"
	3	KVAR	2 KVAR
	4	APPLICABLE STANDARDS	IS 13340-2012
	5	RATED VOLTAGE	440V
	6	FREQUENCY	50HZ
	7	TEMP CATEGORY	-10°C To +55°C
	8	SHAPE	BOX
	9	RATED CURRENT	2.62 AMP
	10	DIE ELECTRIC TYPE	MPP
	11	FILM THICKNESS	6 TO 7 MICRON
	12	TYPE OF IMPREGNANT	NPCB RESIN FILLED
	13	SAFETY FEATURE- OVER PRESURE DISCONNECTOR	PROVIDED
	14	RATED CAPACITY OF ELEMENT TO BE USED (3 X MICROFARAD)	3 ELEMENT OF 11MFD (16.5 MFD BETWEEN 2PHASES)
	15	CAPACITANCE TOLERANCE (AS PER IS)	-5% +10%
	16	LIFE EXPECTED IN HOURS	100000hrs
	17	DISCHARGE TIME	75volts or less with in 3min
	18	CAPACITOR LOSS WITH CABLE & DISCHARGE RESISTER	.75 watt/kvar with cable & discharge resister
	19	CAPACITOR LOSSES IN WATTS/ KVAR	0.6 watt/kvar excluding cable & discharge re-sister
Test and Certification	20	WHETHER TYPE TEST REPPORT AS PER CLAUSE NO 6.2 OF IS3340 FROM NABL LAB SUBMITTED	Type Test Report Submitted For 10 KVAR
	21	ISI CERTIFICATE NUMBER	CM/L-7622675
	22	VOLTAGE PROOF TEST	AS PAR IS 13340-2012 PART -1
	22A	TEST VOLTAGE BETWEEN TERMINAL	2.15 X UN FOR 10SEC
	22B	TEST VOLTAGE BETWEEN TERMINAL & CONTAINER	3KV FOR 1 MIN
	23	PERMANENT OVER VOLTAGE (U _r)	AS PER IS 13340 - 2012 PART 1
	23A	UPTO 8 HRS Daily	1.1 X Rated Voltage 440v
	23B	UPTO 30 MIN Daily	1.15 X Rated Voltage 440v
	23C	UPTO 5 MIN	1.2 X Rated Voltage 440v
	23D	UPTO 1 MIN	1.3 X Rated Voltage 440v
Mechanical and Termination	24	MATERIAL OF CONTAINER & THICKNESS IN MM	0.5MM MS CAN WITH POWDER COATING
	25	DIMENSIONS OF CAPACITORS (L x W x H)	86mm x 43mm x 93mm
	26	WEIGHT OF CAPACITOR	0.5KG
	27	MOUNTING DETAILS	MOUNTING CLAMP ON BODY
	28	CABLE PROVIDED IN R MTR	0.25 METER (0.5 sq mm)
	29	CAPACITOR FAILURE INDICATER	Pop-up Indication Provided
	30	CAPACITOR CAP PROVIDED OR NOT	TOP COVER PROVIDED
	31	SUITABLE EARTHING TERMINAL PROVIDED (YES/NO)	YES



GURANTEED TECHNICAL PARTICULARS FOR LT CAPACITORS

3 KVAR

TITLE	SR. NO.	PARAMETER	PARAMETER TYPE
General Technical Details	1	NAME OF MANUFACTURER	NAYAN ENGINEERING INDUSTRIES (SANGLI)
	2	CAPACITOR MODEL NAME	"HRHEEM POWER"
	3	KVAR	3 KVAR
	4	APPLICABLE STANDARDS	IS 13340-2012
	5	RATED VOLTAGE	440V
	6	FREQUENCY	50HZ
	7	TEMP CATEGORY	-10°C To +55°C
	8	SHAPE	BOX
	9	RATED CURRENT	3.93AMP
	10	DIE ELECTRIC TYPE	MPP
	11	FILM THICKNESS	6 TO 7 MICRON
	12	TYPE OF IMPREGNANT	NPCB RESIN FILLED
	13	SAFETY FEATURE- OVER PRESURE DISCONNECTOR	PROVIDED
	14	RATED CAPACITY OF ELEMENT TO BE USED (3 X MICROFARAD)	3 ELEMENT OF 16.5 MFD (24.75 MFD BETWEEN 2 PHASES)
	15	CAPACITANCE TOLERANCE (AS PER IS)	-5% +10%
	16	LIFE EXPECTED IN HOURS	100000hrs
	17	DISCHARGE TIME	75 volts or less with in 3min
	18	CAPACITOR LOSS WITH CABLE & DISCHARGE RESISTER	.75 watt/kvar with cable & discharge resister
	19	CAPACITOR LOSSES IN WATTS/ KVAR	0.6 watt/kvar excluding cable & discharge resister
Test and Certification	20	WHETHER TYPE TEST REPPORT AS PER CLAUSE NO 6.2 OF IS3340 FROM NABL LAB SUBMITTED	Type Test Report Submitted For 10 KVAR
	21	ISI CERTIFICATE NUMBER	CM/L-7622675
	22	VOLTAGE PROOF TEST	AS PAR IS 13340-2012 PART -1
	22A	TEST VOLTAGE BETWEEN TERMINAL	2.15 X UN FOR 10SEC
	22B	TEST VOLTAGE BETWEEN TERMINAL & CONTAINER	3KV FOR 1 MIN
	23	PERMANENT OVER VOLTAGE (Ur)	AS PER IS 13340 - 2012 PART 1
	23A	UPTO 8 HRS Daily	1.1 X Rated Voltage 440v
	23B	UPTO 30 MIN Daily	1.15 X Rated Voltage 440v
	23C	UPTO 5 MIN	1.2 X Rated Voltage 440v
	23D	UPTO 1 MIN	1.3 X Rated Voltage 440v
Mechanical and Termination	24	MATERIAL OF CONTAINER & THICKNESS IN MM	0.5MM MS CAN WITH POWDER COATING
	25	DIMENSIONS OF CAPACITORS (L x W x H)	124 X 43 X 128
	26	WEIGHT OF CAPACITOR	1 KG
	27	MOUNTING CLAMPS	MOUNTING CLAMP ON BODY
	28	CABLE PROVIDED IN R MTR	0.25 METER (1 sq mm)
	29	CAPACITOR FAILURE INDICATER	Pop-up Indication Provided
	30	CAPACITOR CAP PROVIDED OR NOT	TOP COVER PROVIDED
	31	SUITABLE EARTHING TERMINAL PROVIDED (YES/NO)	YES

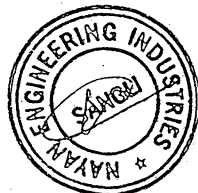
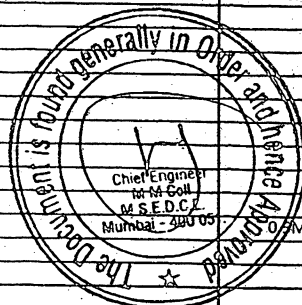


12

GURANTEED TECHNICAL PARTICULARS FOR LT CAPACITORS

4 KVAR

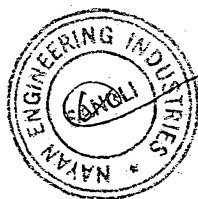
TITLE	SR NO.	PARAMETER	PARAMETER TYPE
General Technical Details	1	NAME OF MANUFACTURER	NAYAN ENGINEERING INDUSTRIES (SANGLI)
	2	CAPACITOR MODEL NAME	"HRHEEM POWER"
	3	KVAR	4 KVAR
	4	APPLICABLE STANDARDS	IS 13340-2012
	5	RATED VOLTAGE	440V
	6	FREQUENCY	50HZ
	7	TEMP CATEGORY	-10°C To +55°C
	8	SHAPE	BOX
	9	RATED CURRENT	5.24 AMP
	10	DIE ELECTRIC TYPE	MPP
	11	FILM THICKNESS	6 TO 7 MICRON
	12	TYPE OF IMPREGNANT	NPCB RESIN FILLED
	13	SAFETY FEATURE- OVER PRESURE DISCONNECTOR	PROVIDED
	14	RATED CAPACITY OF ELEMENT TO BE USED (3 X MICROFARAD)	3 ELEMENT OF 22 MFD(33 MFD BETWEEN 2PHASES)
	15	CAPACITANCE TOLERANCE (AS PER IS)	-5% +10%
	16	LIFE EXPECTED IN HOURS	100000hrs
	17	DISCHARGE TIME	75 volts or less with in 3min
	18	CAPACITOR LOSS WITH CABLE & DISCHARGE RESISTER	.75 watt/kvar with cable & discharge resis ter
	19	CAPACITOR LOSSES IN WATTS/ KVAR	0.6 watt/kvar excluding cable & discharge resister
Test and Certification	20	WHETHER TYPE TEST REPPORT AS PER CLAUSE NO 6.2 OF IS3340 FROM NABL LAB SUBMITTED	Type Test Report Submitted For 10 KVAR
	21	ISI CERTIFICATE NUMBER	CM/L-7622675
	22	VOLTAGE PROOF TEST	AS PAR IS 13340-2012 PART -1
	23	PERMANENT OVER VOLTAGE (U ₁)	AS PER IS 13340 - 2012 PART 1
	22A	TEST VOLTAGE BETWEEN TERMINAL	2.15 X UN FOR 10SEC
	22B	TEST VOLTAGE BETWEEN TERMINAL & CONTAINER	3KV FOR 1 MIN
	23A	UPTO 8 HRS Daily	1.1 X Rated Voltage 440v
	23B	UPTO 30 MIN Daily	1.15 X Rated Voltage 440v
	23C	UPTO 5 MIN	1.2 X Rated Voltage 440v
	23D	UPTO 1 MIN	1.3 X Rated Voltage 440v
Mechanical and Termination	24	MATERIAL OF CONTAINER & THICKNESS IN MM	0.5MM MS CAN WITH POWDER COATING
	25	DIMENSIONS OF CAPACITORS (L x W x H)	124 X 43 X 128
	26	WEIGHT OF CAPACITOR	1 KG
	27	MOUNTING DETAILS	MOUNTING CLAMP ON BODY
	28	CABLE PROVIDED IN R MTR	0.25 METER (1 sq mm)
	29	CAPACITOR FAILURE INDICATER	Pop-up Indication Provided
	30	CAPACITOR CAP PROVIDED OR NOT	TOP COVER PROVIDED
	31	SUITABLE EARTHING TERMINAL PROVIDED (YES/NO)	YES



GURANTEED TECHNICAL PARTICULARS FOR LT CAPACITORS

5 KVAR

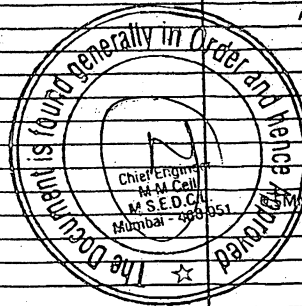
TITLE	SR NO.	PARAMETER	PARAMETER TYPE
General Technical Details	1	NAME OF MANUFACTURER	NAYAN ENGINEERING INDUSTRIES (SANGLI)
	2	CAPACITOR MODEL NAME	"HRHEEM POWER"
	3	KVAR	5 KVAR
	4	APPLICABLE STANDARDS	IS 13340-2012
	5	RATED VOLTAGE	440V
	6	FREQUENCY	50HZ
	7	TEMP CATEGORY	-10°C To +55°C
	8	SHAPE	BOX
	9	RATED CURRENT	6.55AMP
	10	DIE ELECTRIC TYPE	MPP
	11	FILM THICKNESS	6 TO 7 MICRON
	12	TYPE OF IMPREGNANT	NPCB RESIN FILLED
	13	SAFETY FEATURE- OVER PRESURE DISCONNECTOR	PROVIDED
	14	RATED CAPACITY OF ELEMENT TO BE USED (3 X MICROFARAD)	3 ELEMENT OF 27.5 MFD(41.25 MFD BETWEEN 2 PHASES)
	15	CAPACITANCE TOLERANCE (AS PER IS)	-5% +10%
	16	LIFE EXPECTED IN HOURS	100000hrs
	17	DISCHARGE TIME	75volts or less with in 3min
	18	CAPACITOR LOSS WITH CABLE & DISCHARGE RESISTER	.75 watt/kvar with cable & discharge resister
	19	CAPACITOR LOSSES IN WATTS/ KVAR	0.6 watt/kvar excluding cable & discharge re sister
Test and Certification	20	WHETHER TYPE TEST REPPORT AS PER CLAUSE NO 6.2 OF IS3340 FROM NABL LAB SUBMITTED	Type Test Report Submitted For 10 KVAR
	21	ISI CERTIFICATE NUMBER	CM/L-7622675
	22	VOLTAGE PROOF TEST	AS PAR IS 13340-2012 PART -1
	22A	TEST VOLTAGE BETWEEN TERMINAL	2.15 X UN FOR 10SEC
	22B	TEST VOLTAGE BETWEEN TERMINAL & CONTAINER	3KV FOR 1 MIN
	23	PERMANENT OVER VOLTAGE (Ur)	AS PER IS 13340 - 2012 PART 1
	23A	UPTO 8 HRS Daily	1.1 X Rated Voltage 440v
	23B	UPTO 30 MIN Daily	1.15 X Rated Voltage 440v
Mechanical and Termination	23C	UPTO 5 MIN	1.2 X Rated Voltage 440v
	23D	UPTO 1 MIN	1.3 X Rated Voltage 440v
	24	MATERIAL OF CONTAINER & THICKNESS IN MM	1.5MM MS CAN WITH POWDER COATING
	25	DIMENSIONS OF CAPACITORS (L x W x H)	124 X 43 X 174
	26	WEIGHT OF CAPACITOR	1.25 KG
	27	MOUNTING DETAILS	MOUNTING CLAMP ON BODY
	28	CABLE PROVIDED IN R MTR	0.25 METER (1.6 sq mm)
	29	CAPACITOR FAILURE INDICATER	Pop-up Indication Provided
	30	CAPACITOR CAP PROVIDED OR NOT	TOP COVER PROVIDED
	31	SUITABLE EARTHING TERMINAL PROVIDED (YES/NO)	YES

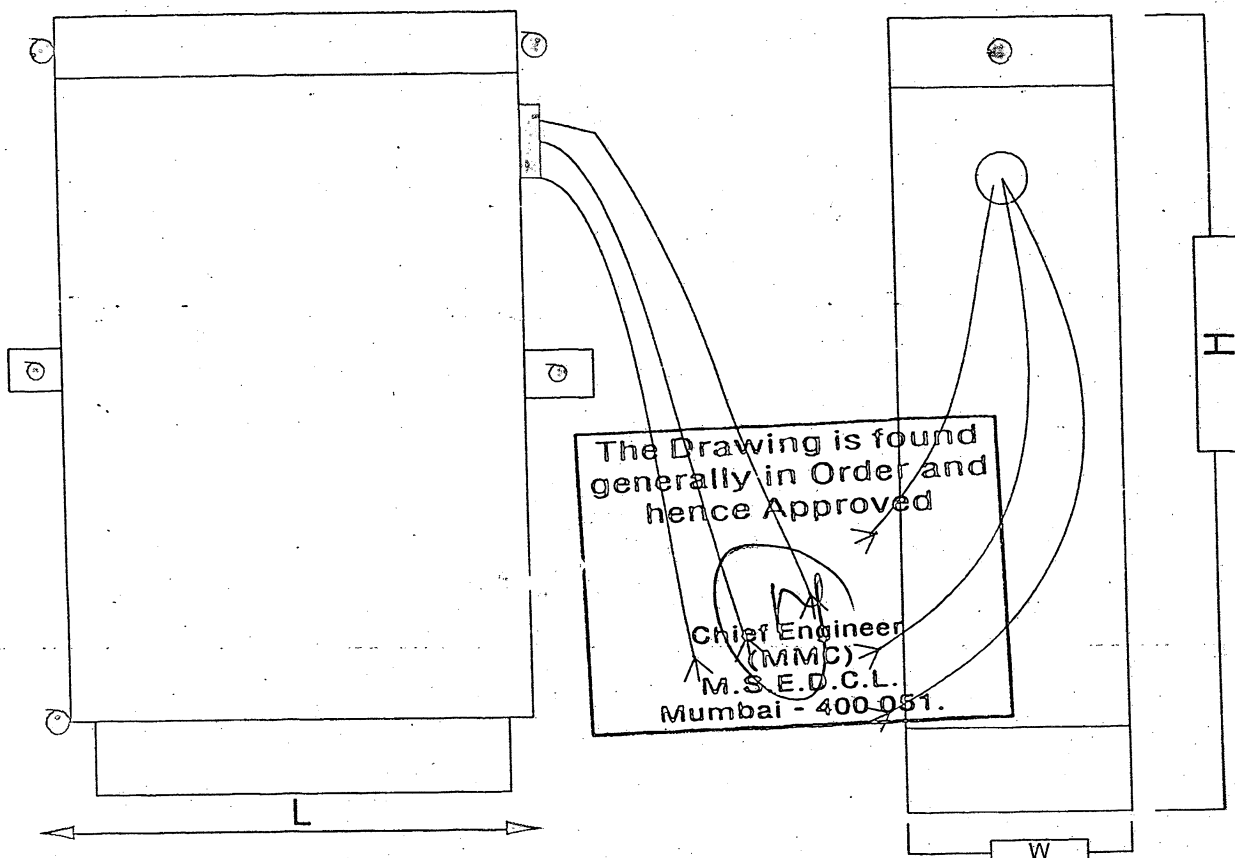


GURANTEED TECHNICAL PARTICULARS FOR LT CAPACITORS

6 KVAR

TITLE	SR NO.	PARAMETER	PARAMETER TYPE
General Technical Details	1	NAME OF MANUFACTURER	NAYAN ENGINEERING INDUSTRIES (SANGLI)
	2	CAPACITOR MODEL NAME	"HRHEEM POWER"
	3	KVAR	6 KVAR
	4	APPLICABLE STANDARDS	IS 13340-2012
	5	RATED VOLTAGE	440V
	6	FREQUENCY	50HZ
	7	TEMP CATEGORY	-10°C To +55°C
	8	SHAPE	BOX
	9	RATED CURRENT	7.86AMP
	10	DIE ELECTRIC TYPE	MPP
	11	FILM THICKNESS	6 TO 7 MICRON
	12	TYPE OF IMPREGNANT	NPCB RESIN FILLED
	13	SAFETY FEATURE- OVER PRESURE DISCONNECTOR	PROVIDED
	14	RATED CAPACITY OF ELEMENT TO BE USED (3 X MICROFARAD)	3 ELEMENT OF 33 MFD (49.5 MFD BETWEEN 2PHASES)
	15	CAPACITANCE TOLERANCE (AS PER IS)	-5% +10%
	16	LIFE EXPECTED IN HOURS	100000hrs
	17	DISCHARGE TIME	75volts or less with in 3min
	18	CAPACITOR LOSS WITH CABLE & DISCHARGE RESISTER	.75 watt/kvar with cable & discharge resister
	19	CAPACITOR LOSSES IN WATTS/ KVAR	0.6 watt/kvar excluding cable & discharge resister
Test and Certification	20	WHETHER TYPE TEST REPPORT AS PER CLAUSE NO 6.2 OF IS3340 FROM NABL LAB SUBMITTED	Typo Test Report Submitted For 10 KVAR
	21	ISI CERTIFICATE NUMBER	CM/L-7622675
	22	VOLTAGE PROOF TEST	AS PAR IS 13340-2012 PART -1
	23	PERMANENT OVER VOLTAGE (Ur)	AS PER IS 13340 - 2012 PART 1
	22A	TEST VOLTAGE BETWEEN TERMINAL	2.15 X UN FOR 10SEC
	22B	TEST VOLTAGE BETWEEN TERMINAL & CONTAINER	3KV FOR 1 MIN
	23A	UPTO 8 HRS Daily	1.1 X Rated Voltage 440v
	23B	UPTO 30 MIN Daily	1.15 X Rated Voltage 440v
	23C	UPTO 5 MIN	1.2 X Rated Voltage 440v
	23D	UPTO 1 MIN	1.3 X Rated Voltage 440v
Mechanical and Termination	24	MATERIAL OF CONTAINER & THICKNESS IN MM	MS CAN WITH POWDER COATING
	25	DIMENSIONS OF CAPACITORS (L x W x H)	124 X 43 X 174
	26	WEIGHT OF CAPACITOR	1.25 KG
	27	MOUNTING DETAILS	MOUNTING CLAMP ON BODY
	28	CABLE PROVIDED IN R MTR	0.25 METER (1.5 sq mm)
	29	CAPACITOR FAILURE INDICATER	Pop-up Indication Provided
	30	CAPACITOR CAP PROVIDED OR NOT	TOP COVER PROVIDED
	31	SUITABLE EARTHING TERMINAL PROVIDED (YES/NO)	YES

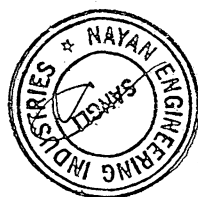
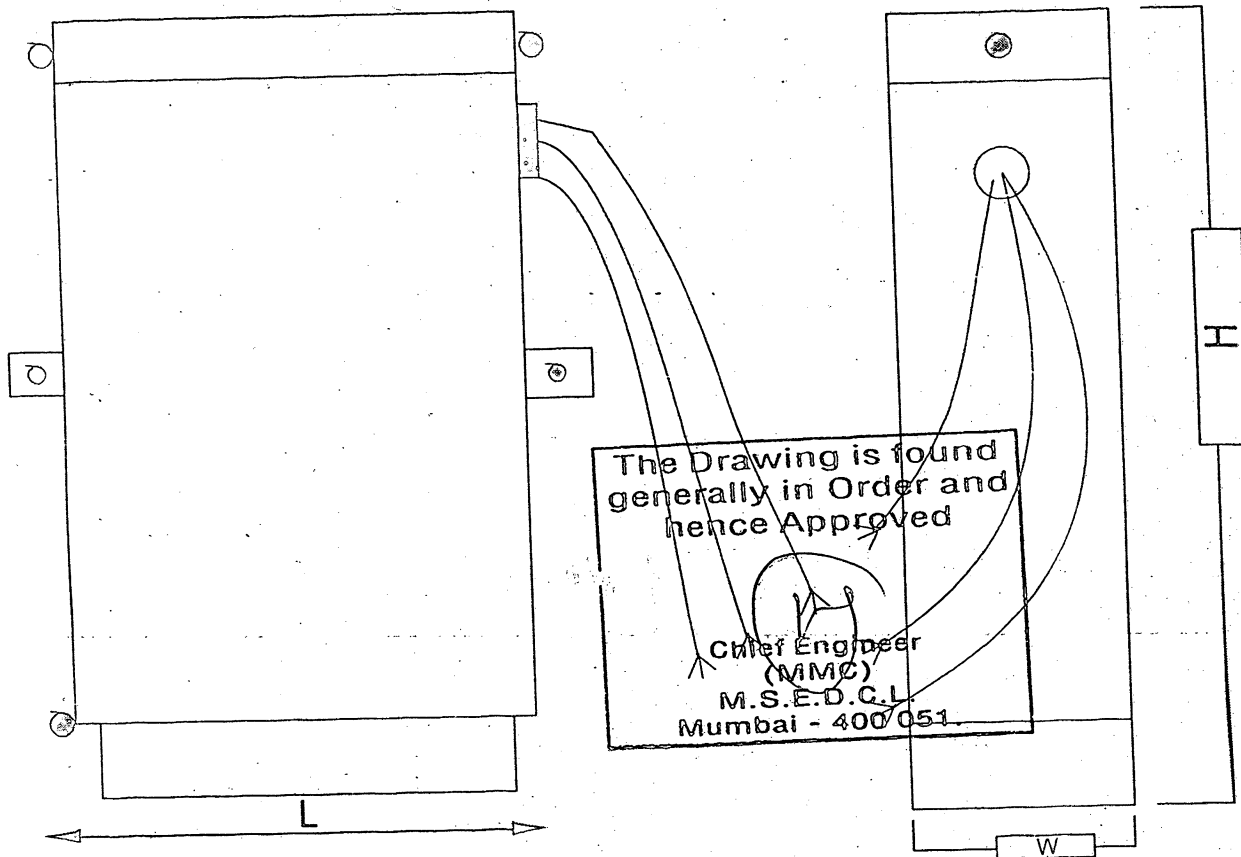




KVAR RATING	LENGTH L IN MM	WIDTH W IN MM	HEIGHT H IN MM
1 KAVR	86	43	93
2 KAVR	86	43	93

Note : Dimension Tolerance - 5% + 10%

DIV NO. NEI-05-11-2017	DO NOT SALE DRAWING		
	Nayan Engineering Industries		
	Title : 1 KVAR AND 2 KVAR / 440V/3PHASE/50Hz BOX RESIN FILLED CAPACITOR UNIT DRAWING		DRAWING NO. 01



Note : Dimension Tolerance - 5% + 10%

KVAR RATING	LENGTH L IN MM	WIDTH W IN MM	HEIGHT H IN MM
3 KAVR	124	43	128
4 KAVR	124	43	128

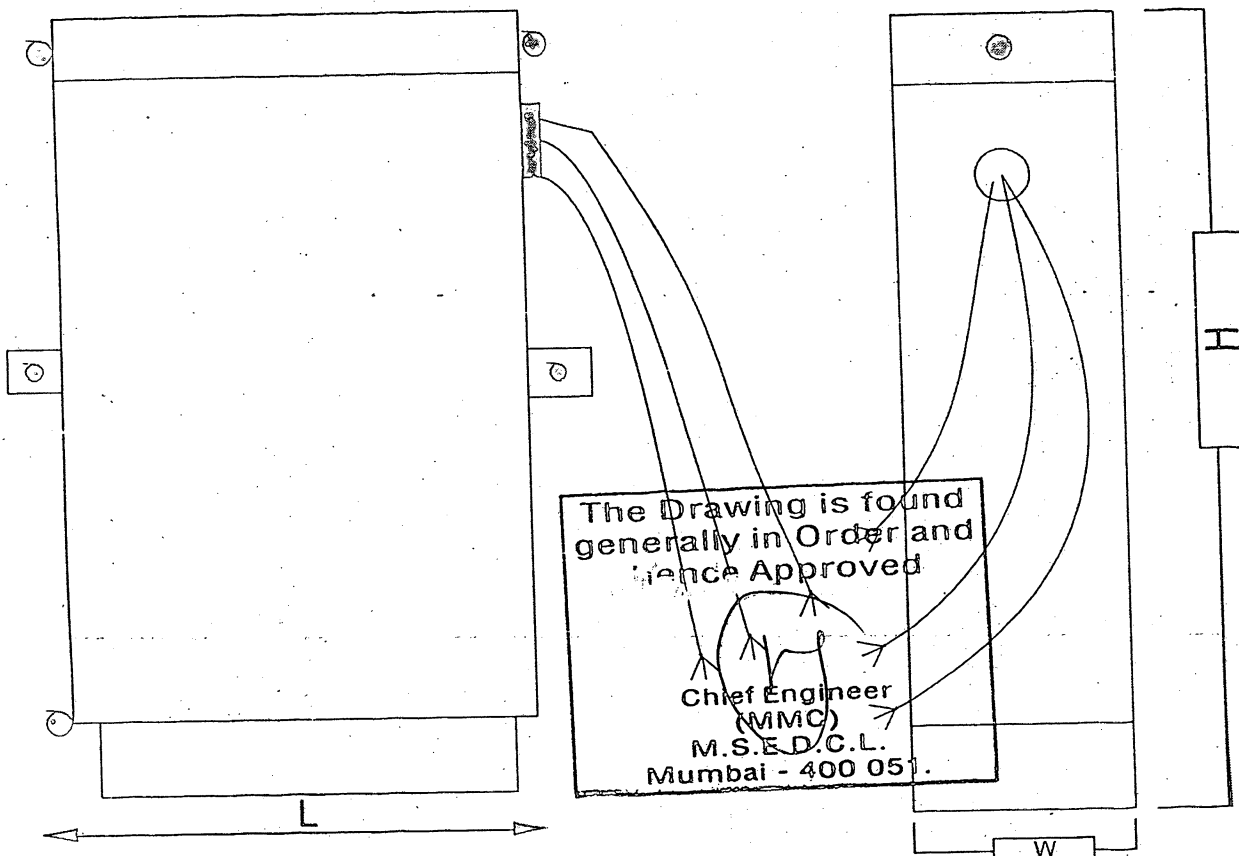
DIV NO. NEI-05-11-2017

DO NOT SALE DRAWING

Nayan Engineering Industries

Title : 3 KVAR AND 4 KVAR / 440V/3PHASE/50Hz BOX
RESIN FILLED CAPACITOR UNIT DRAWING

DRAWING NO.
02



KVAR RATING	LENGTH L IN MM	WIDTH W IN MM	HEIGHT H IN MM
5 KAVR	124	43	174
6 KAVR	124	43	174

Note : Dimension Tolerance - 5% + 10%

DO NOT SALE DRAWING

Nayan Engineering Industries

Title : 5KVAR AND 6 KVAR / 440V/3PHASE/50Hz BOX
RESIN FILLED CAPACITOR UNIT DRAWING

DRAWING NO.
03

DIV NO. NEI-05-11-2017