



SIEMA Insight



Fortnightly Newsletter

Activities from 1st January 2010 to 15th January 2010

We from SIEMA recommend 1) The new pump efficiency chart Fig.6 for above 15kw Submersible pumpsets 2) Single phase & Three phase efficiency factors for Openwell and Borewell submersible pumpsets for implementation from B.E.E.

ANNEXURE - B

IS: 8034 : 2002 Submersible Pumpsets (Borewell) MOTOR EFFICIENCY FACTORS For Single Phase Pumpsets and Three Phase 200mm (Nominal size) and above Submersible Pumpsets.

Motor Rating (Kw)	Single phase 100mm motor efficiency factor	Three phase motor factor efficiency for 200mm & above pumpsets
0.37	40	-
0.55	42	-
0.75	46	-
1.1	49	-
1.5	52	-
2.2	56	-
7.5	-	-
9.3	-	-
11	-	-
13	-	-
15	-	-
18.5	-	80
22	-	81
26	-	81
30	-	82
37	-	82
45	-	82
55	-	82.5

Note: For single phase 100mm submersible pumpsets to arrive the overall efficiency of the pumpset take the minimum pump efficiency values given in Fig.5 in page 10 of IS: 8034:2002.

SIEMA - BEE - 7-1-2010

ANNEXURE - C

IS: 14220: 1994

OPENWELL SUBEMERSIBLE PUMPSETS

MOTOR EFFICIENCY FACTORS

For Single Phase Motor rating (kw)	Openwell Pumpsets Motor Efficiency factor
0.37	45
0.55	47
0.75	50
1.1	56
1.5	58
2.2	60

Note: For single phase openwell submersible pumpsets to arrive the overall efficiency of the pumpset take the minimum pump efficiency values given in Fig.5 in page 8 of IS: 14220:1994.

SIEMA - BEE - 7-1-2010

FORTHCOMING PROGRAMMES

Session on, "Lean Manufacturing" by Mr. Anil Bhardwaj, Secretary General, Federation of Indian Micro and Small & Medium Enterprises, (FISME), New Delhi will be held on 3rd February 2010 at ND Hall.

Session on GST by Sri Vaitheeswaran, Advocate, Chennai will be held on 15th February 2010 at ND Hall.

Interview by Media

Sri R.Y. Narayanan, Asst. Editor, Business Line, Coimbatore interviewed our President Sri Jayakumar Ramdass about the status of engineering industry of our region during 2009 and prospects for 2010 on 1st January 2010

Special Lecture on "Brand Coimbatore"

We arranged a special lecture on "Brand Coimbatore – A Global Pump Destination" by Sri S. Gurumurthy, Eminent Thinker and Chartered Accountant on 2nd January 2010 at our Association. Nearly 70 members attended the session.

Meeting with expert on GI:

Sri S. Ravi, Foxmandal Little – Solicitors and Advocates, Hyderabad met Sri Jayakumar Ramdass, President on 2nd January 2010 at our Association and discussed about registering Geographical Indication for Pumpsets manufactured in Coimbatore.

Visit of Industries Commissioner

Shri G. Sundaramurthy IAS., Industries Commissioner, Government of Tamil Nadu, visited SIEMA and COINDIA office on 4th January 2010. Sri. Jayakumar Ramdass, President Siema and Sri G. Rajendran, President, COINDIA explained about the activities of COINDIA.

Interaction with Industries

Commissioner:

Sri Jayakumar Ramdass, President attended an interaction meeting with Sri G. Sundaramurthy, I.A.S., Commissioner of Industries, Government of Tamil Nadu on 4th January 2010 at COINDIA Complex and discussed about the activities of COINDIA and facilities available at CMTR 1 and progress in CMTR II at E & E Estate.

Meeting at PSG

Sri Jayakumar Ramdass, President attended PSG Alumni Meeting on 4th January 2010 at PSG Campus.

Technical Committee Meeting:

Technical Committee meeting was held on 5th January 2010 and discussed about the Star Marking for single Phase Mono and Submersible Pumpsets and Higher HP/High Discharge Submersible Pumpsets.

Session on GST

Sri T. C. Thiagarajan, Vice President attended a session on "GST" organized by CII, Coimbatore Zone on 7th January 2010 at Hotel Residency. Shri C. Rajendran, Commissioner of Central Excise and Service Tax was the Chief Guest.



Meeting at BEE

Sri Jayakumar Ramdass, President, Sri G. Rajendran, Chairman, Pump and Motor Panel, SIEMA and Sri V. Krishnakumar, Immediate Past President, IPMA attended the Technical Committee Meeting of Bureau of Energy Efficiency, Ministry of Power, Government of India on 7th January 2010 at New Delhi and discussed about star marking for single phase mono and submersible Pumpsets and higher HP/ High Discharge Submersible Pumpsets.

Meeting with LMW Official:

Sri K. Gowrishankar, Head – Marketing met Sri Jayakumar Ramdass, President on 5th January 2010 and discussed about the machine tool potential in pumpset industries.

Meeting with official of World Pumps:

Ms. Bhuma Iyer, Editor, World Pumps India, Mumbai met Sri Jayakumar Ramdass, President on 8th January 2010 and discussed about the state of pump industry.

Meeting with Officials of APITCO

Sri A. Sreedharan, Cluster Manger and Sri G. Yechendra Reddy, Project Officer, APITCO met Office-bearers and discussed about the International exhibition and study tour to China on 7th January 2010 at our Association.

Meeting of CCC, APITCO:

Sri Jayakumar Ramdass, President chaired the Cluster Co-ordination Committee (CCC) meeting on 11th January 2010 at our Association and discussed about the action plan for the Cluster development.

Meeting with Bank officials:

Mr. Babji Vallapatia, Assistant General Manager, SIDBI, Coimbatore met Sri Jayakumar Ramdass on 11th January 2010 at our Association and discussed about the schemes available with SIDBI for SMEs.

Sri R. Nandagopal, Lead District Manager, Canara Bank, Coimbatore met Sri Jayakumar Ramdass, President and discussed about the activities of District Lead Bank.

Technical Committee Meeting

Technical Committee meeting was held on 11th January 2010 and discussed about the IEC/TS 60034-31 Ed.1: Rotating Electrical Machines – Part 31 Guide for the Selection and application of energy efficient motors including variable – speed applications.

Meeting at Chamber

Sri V. Lakshminarayananasamy, Vice President attended the Governing Council Meeting of Indian Chamber of Commerce and Industry Coimbatore on 11th January 2010 at Chamber Towers.

Meeting with APITCO Officials:

Sri A. Sreedhar, Cluster Development Manager, APITCO Ltd., and Ms. Sangeetha, Jr. Cluster Adviser, MSME Foundation, Chennai met Sri Jayakumar Ramdass, President on 12th January 2010 and discussed about extending subsidy for MSME pump manufacturers who are availing Star Marking by BEE.

We are giving below the recommended points of SIEMA submitted to BEE during the meeting held on 7th January 2010.

1. Model Restriction in Submersible Pumpsets: Suggestion by Siema has recommended no restriction in models or BEE ratings.
2. Declaring power factor 0.83 & 0.85 for three phase Submersible pumpsets is not suitable due to technical reasons.
To improve Power factor as per E.B. rules the customer has to install shunt capacitors for 3 phase pumpsets.
3. Action taken by SIEMA, SITARC and COINDIA , in introducing a standard / Amendment to cover IS: 8472 Regenerative pumpsets under Energy Measurement.
4. For other Single phase Submersible pumpsets, we can cover them, under B.E.E by introducing an amendment to schedule 7.
IS:14220: 1994 - Single phase motor efficiency factors for 0.5 HP, 0.75 HP, 1.0 HP, 1.5 HP.
2.0 HP & 3.0 HP values are given in Annexure B & C.
IS : 8034 : 2002 - Single phase motor efficiency factors for 0.5 HP, 0.75 HP, 1.0 HP, 1.5 HP.
2.0 HP & 3.0 HP values are given in Annexure B & C.
5. 8” Submersible pumpset overall efficiencies, maximum we can achieve only 3 star (or) 2 star with Casted Bronze/S.S. Impeller pumps with the combinations of Casted Bowl/Casings.
Recommendation: Above 15 kW and 7 LPS discharge a separate pump efficiency chart, for 8”, 10” and above sizes Bore well Submersible Pumpsets, (covering under IS: 8034: 2002) to be referred.

6. Reason for New Pump Efficiency Chart
Generally B.E.E is promoting Energy Efficient Products from 3 star and above up to 5 star. The pump efficiency chart available in the BIS standards IS: 8034 & IS: 11346 are basically from Kharrasik Hand Book values, by applying some tolerances (0.88 & 0.92).

So based on the pump efficiency chart getting a 2 star (or) 3 star mark for high discharge flow above 7 LPS, that also from Casted Bowl/Casing/Impeller Pumps is practically not possible. B.E.E cannot market (or) promote for certain products 3 star, and some other products one (or) two star. It will confuse customer. Since there is no tolerance on star rated values in negative side, For practical reasons for 8” and above Higher H.P pumpsets to achieve 3 star and 5 star value, we have to follow new pump efficiency chart.

7. Since BIS Standard revision (or) Amendment will take a long duration of more than a year, better we will approve star marking for 8” and above size Bore well Submersible pumpsets up to 75HP based on our (SIEMA'S) recommendation, without insisting BIS Standard up gradation (Fig: 6 enclosed)

Presently all manufacturers are getting BIS (ISI) model approval, based on present IS: 8034: 2002, mainly by self declaration for models having rating above 15kW.

To avoid confusion, B.E.E should not insist BIS mark/approval for above 15kw 8” & above size submersible pumps.