



M/s. GIRISH CHANDRA GHOSH & G.G.S.

Tank calibration,
tank roundness, tilt, settlement survey,
UST and P & I of pipe lines and tanks
in INDIA & ABROAD.



CALIBRATION OF DISTILLERY VATS & BREWERY BBTS, UNITANKS



Corp Off : 40/2, B. T. Road, Sonajhuri Apartment, Block-B
Ground Floor, Kolkata - 700 002
Regd Off : 39A, B. T. Road, Katakai, Kolkata - 700 002
West Bengal India
Mob. : 91 9830081365
Tel / Fax : 033-25589089
e-mail : gcg.ggs.kol@gmail.com
gcg_ggs@rediffmail.com

www.girishcalibration.com
www.storage-tank-calibration.in



An ISO 9001:2008 certified Company

NSIC-MSME registered Unit
NSIC-ONICRA credit rated Co.

Approved by Office of Zonal Director General
of Foreign Trade Certificate of Importer-
Exporter Code (IEC) No: 0216925703 and
the Registered member of EEPC
(Engineering Export Promotion Council)
India, Reg. No-301/M28655

Calibration of Distillery Vats & Brewery Bbts, Unitanks



Distilleries, breweries and bottling units of alcohol make products which come under strict excise regulations and duties. Excise duties are against volume of alcohol and are monitored very closely. Extreme accuracy in volumes during storage, transfer, blending and bottling is a must for all liquor units.

- Spirit Storage vats Raw spirit comes by road tankers or transfers
- Molasses Storage tanks Molasses comes by road tankers, rail, or transfers
- Blending vats Spirit is transferred from storage vats where it is mixed with costly additives
- Finished product vats Finished product is stored for bottling and ageing
- Wooden vats Finished product are stored, aged and taken out as required.
- Unitanks/BBT/Whirlpool tanks Breweries process beer through a complex process

All the above storage and process vats require continuous monitoring with dip-tapes, dip sticks and gauges under Excise supervision and control. Inaccuracy in volumes will lead to huge accumulated losses or gains, resulting in mismatch of bottling volumes and production inventory. Every alcohol unit needs precise calibration tables. This is where we have made a mark to put it modestly.

Our Process involves a combination of physical wet gauging along with strapping on full tank on every shell combined with internal laser measurements. Every vat or tank can be unique depending on SS or MS material, size/diameter, plate thickness, bottom profile, bottom slope and dip taking point. Like, SS tanks tend to expand and contract more at lower plate thickness than MS tanks do, so a SS tank should be preferably measured for circumference and plate thickness at all shells after allowing it to expand on full tank. Water meters and measuring drums are measured with litreprovers before being put to use. Continuous physical water filling beyond under drip on a straight cylindrical part may not give a correct volume as parameters like accumulated dip reading round offs to nearest millimeter, parallax or visual errors or slight imperfection in proving the master container for a fixed volume can lead to unnatural accumulated gains or losses at the end on total tank volume. We draw-off or fill water at every shell at certain levels by measuring dip and litre. This gives us the desired accuracy in litre per cm at various levels. Wooden vats have taper and require a totally different approach. We measure apex and base mean diameters of wooden vats with lasers and tapes and have developed very accurate volume calculations. We always cross-check these volumes with water draw-off on wooden vats. Also tanks in breweries and blending tanks have blades, shafts and other deductible deadwood which needs to be corrected in final calibration tables. So understanding tank geometry and how to apply the correct process requires experience, knowledge, practical considerations, fool proof calculations and corrections.

Supriyo Ghosh, P.G.D.B.M. with an experience of 21 years in the field of tank calibration. We provide the best solution.



**Oriental Bottling Pvt. Ltd.**
OFFICE: PLOT NO. 193 GROUND FLOOR, BAYABABA, LANE, BHOP NAGAR, BHUBANESWAR-751 022 PHONE/FAX: 06742541496
BOTTLING UNIT: 55/56 BHAGAWAN PUR INDUSTRIAL ESTATE, PATRAPADA, BHUBANESWAR-19 PHONE NO. 0674 2472547

REF. NO. 03/27/10 DATE 27/10

To whom it may concern

Owner / Location / Site	: Oriental Bottling Pvt. Ltd. 55/56 Bhagawanpur Industrial Estate, Patrapada, Bhubaneswar – 19, Orissa
Name of the calibrator	: M/s. Girish Ch. Ghosh & G.G.S. H.O. 39A, B. T. Road, Kolkata – 700 002
Type of work	: Mathematical & Physical calibration of storage tank and preparation of computerised chart and co- ordination work with Govt. Deptt.
Order value	: Rs. 340000/- (L.S.) [Three lakhs forty thousand only]
Performance	: Good
Remarks	: We hereby confirm and certify that calibrator has completed the work within schedule time, as per specification. And payment done as per work order.

For Chemical Services (P) Ltd


M. S. Ghosh

Bhatia Wine Merchants (P) Ltd.
- Premier Distillers & Bottlers -

Dated: 08.09.2010

WORK COMPLETION CERTIFICATE

Party Name :- M/s GIRISH CHANDRA GHOSH & G.G.S
Address :- 39-A, B.T. Road Kolkata -2
Job details :- Calibration of storage Tank
Job Order Value:- Rs. 4,06,546=00
Performance :- Good


S.R. Patel
(Works Manager)

Off : Near Bank of India, Dayal Band, Bilaspur 495 001 (C.G.)
Works : Village- Dhuma, Post- Sargaon, Distt. - Bilaspur, (C.G.)
Ph: 07752-652851, Fax: 07752-217612, email : bhatiawines@yahoo.co.in

CLIENT IN LIQOUR INDUSTRY



1. Associates Alcohol & Beverages Company.
2. Assansole Bottling Pvt. Ltd. Midnapore
3. Karnak Distilleries Pvt. Ltd.
4. Oriental Bottling Pvt. Ltd. Orissa
5. Surma Distillery Pvt. Ltd. Silchar
6. Hi Tech Bottling Pvt. Ltd. Orissa
7. Bacchus Bottling Pvt. Ltd. Balasore
8. MDH: Breweries Pvt. Ltd. Meghalaya
9. Ajanta Bottles & Blenders Pvt. Ltd.
10. McDowell & Co.
11. North East Distilleries Pvt. Ltd.
12. Aiudhia Distillery. Assansole
13. Diamond Beverage Pvt. Ltd. (Coca Cola) Kolkata
14. Spencer Distilleries & Beverage. Ranchi
15. Mount Distillery. Sikkim
16. N.C.Shaw & Co. Breweries Pvt. Ltd. Kolkata
17. Bhattacharya Bottling Plant P. Ltd. W.B.
18. K.D. Beverage Pvt. Ltd. Guwahati
19. Bhatia Wine Merchant Pvt. Ltd. Chhattisgarh
20. IFB Agro Industries Ltd.
21. Gemini Distilleries (Jharkhand) Pvt. Ltd. Ranchi
22. Steel City Bottling. Jharkhand
23. North East Distilleries Pvt. Ltd.
24. PrashantImpex Pvt. Ltd. Dankuni
25. Karco Spirit ware house. Kolkata
26. Hohal Groups (Contractor). Budge Budge
27. West Bengal Spirit Ware Home. Budge Budge
28. Radiant Manufacturers Pvt. Ltd.
29. Varas International Pvt. Ltd.
30. Madhusale Drinks Pvt. Ltd.
31. Passion Beverages Pvt. Ltd.
32. Saran Industries
33. Purulia Bottling Pvt. Ltd.
34. United Breweries Ltd.
35. CMJ Breweries Pvt. Ltd.
36. Jog Vick Manufacturing & Trading Pvt. Ltd.
37. K.D. Liquor & Fertilizer Pvt. Ltd.

FOR ANY REQUIREMENT PLEASE CALL



SUPRIYO GHOSH, Partner
Contact: 9830081365

M/s. GIRISH CHANDRA GHOSH & G.G.S.
39A, B. T. Road, Katakal, Kolkata - 700 002
West Bengal, India
Mob : +919830081365
Tel/Fax : 033-25589089
e-mail- gcg.ggs.kol@gmail.com
gcg_ggs@rediffmail.com
www.girishcalibration .com
www. storagetankcalibration.in