I feel my performance is between 4 and 5. Apart from regular agreed KRA following fact will differentiate from 3, 4 and 5 is given below.

Evaluation of all new projects based on chemistry, manufacturing process via literature search within a week time frame and reverted back to Marketing / Dr. Vadiraj E.

Carrying out quality check in-house and in some cases getting it done from commercial testing labs.

Carrying out analytical investigation to establish composition sample so that similar things can be attempted in our finished product. In-some cases even developed the scalable process to get the product performance.

Shared process of vinyl laurate to Jubliant life sciences, the same process was investigated to get go / no go answer for VVF in-house developmental work.

Process on SLS / SLES was also shared with DMCC to get the product done via tolling concept.

Process on CSA sulfonate sodium was also investigated and was taken up as a third party development project. It is now not in force. This is a BASF equivalent required for Lannette SX formulation.

Carrying out cost estimation. Provided immediate in-put to marketing based on go / no go in following cases

1. Lannette SX
2. Arachadic acid
3. Vinyl Laurate
4. Animal Feed / Rumen Bypass – Berg & Schmidt, LipidChem, Amul and Adani Wilmar
5. Isostearic acid
6. Linseed Oil epoxidation
7. Honney Well equivalent E Wax
8. SLS
9. SLES
10. Nonyl Phenyl Ethoxylates equivalent for Agro
11. APSA (of Amway) equivalent for Agro (tank adjuvant)
12. Personal Care Appl. Lanette AO
13. Cocobutter equivalent/substitute.

Plant Related Projects

Deodorization of Palmitic acid –

1. Completed the lab trials with Peracetic Acid based deodorization and concluded its not working.
2. Explored masking the odour of palmitic acid with some edible olfactory material preferably an oily note - not working.
3. Tried to find out various parties to carry out deodorization. The lab trial deodorizer in Kamani Oils and Muez Hest – was able to do that in lab and the improvement was to the tune of 50 – 60% in odor performance. At commercial level this it was possible, but finance was the issue.
4. We wanted to manage the odor profile using masking agents. Addition of perfume was also checked for odor masking effect, but failed. The suggestion was from Dr. Vadiraj and we tried to fix its performance.

Soya Acid Oil :

Sulfur reduction of Soya Acid Oil using spent catalyst, splitting distillation all possibility checked. The results were negative. This was carried out under the guidance of Mr. Vilas K.

Glycerin Pitch

1. Water separation : Studied dynamics of Membrane filter. Approached Vendors to get trial done. No positive response. Approached Koch Membrane system for their input but now significant outcome as the problem of membrane getting chocked is concern. The project is very capital intensive.
2. Butanol treatment - the exploratory work to address separation of Glycerine pitch from its inorganic and use as a fuel source was evaluated. The butanol cost was on the higher side. The two unit operation involved made it practically not feasible.
3. Salt was mixed to reduce the calorific value to use as landfill was found economically feasible option. This was taken up for trial. The cost of landfill was estimated to 15Rs.
4. Flyash was used instead of Salt and the cost came to 8Rs. Max for landfilling.
5. Polygcerol along with the acid pitch was blended and converted to its methanol ester. The project is in progress.

Accelerated stability studies of PETO, TMPTO and GTO completed. Wish to improve on the existing position.