



GUJARAT ENERGY TRANSMISSION CORPORATION LTD.

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Normalization Methodology

1. The average of scores of each batch is calculated first. The average of marks is calculated as mentioned below.

$$\bar{x} = \frac{\text{sum of marks of all candidates in each batch}}{\text{Number of candidates in each batch}}$$

2. The batch with the highest average is considered as Base Batch. All other batches will be normalized against this Base Batch.
3. The **Standard Deviation** (σ) of each batch is calculated. The formula to calculate the Standard Deviation is as mentioned below:

$$\sigma = \sqrt{\frac{\sum (x - \bar{x})^2}{N - 1}}$$

Where:

σ = Standard Deviation

x = score of the candidate

\bar{x} = Mean of scores of all the candidates in the batch

N = Number of candidates in the batch

4. Assuming that Batch-1 is to be normalized against Batch-2 (Base Batch), then the normalized score of candidate is calculated using the following formula:

$$X_n = \frac{S_2}{S_1} * (X - X_{avg}) + Y_{avg}$$

Where:

S_1 = Standard Deviation for Batch – 1

S_2 = Standard Deviation for Batch – 2 (Base Batch)

X = score of the candidate

X_{avg} = Average score of candidate's batch

Y_{avg} = Average score of Base Batch

X_n = Normalized score of the candidate

The same formula will be used in case there are more than two batches for a post.

5. The following points will be considered during scheduling of candidates.
 - i. Batches will have nearly equal number of candidates scheduled
 - ii. Equal distribution of candidates as per their categories.