Addendum to Techno-Economic

Viability Study Report of

“PROJECT – MELANGE YARN

manufacturing”

Name of Owner

: Maral Overseas Ltd. (MOL)

Regd. Office & Textile Mill & Project Site at Maral Sarovar, V&P.O. Khalbujurg, Tehsil Kasrawad, Dist. Khargone, Madhya Pradesh - 451 660.

Corporate Office at Bhilwara Towers, A-12, Sector 1, Noida -201 301 (U.P), [www.](http://www/) maraloverseas.com

TEV Study Report for

: Union Bank of India, (UBI)

Mid Corporate Branch Delhi (S), 26/28-D, Connuaght Place, New Delhi - 110001.

Consultant



: Vastukala Consultants (I) Pvt. Ltd. ,

B1-001, U/B Floor, Boomerang, Chandivali Farm Road, Andheri – East, Mumbai – 400 072, Maharashtra.

**ADDENDUM TO TEV STUDY REPORT**

**Date:** 18 / 09 / 2023

**To,**

Assistant General Manager,

Mid Corporate Branch Delhi (S),

26/28-D, Connaught Place,

New Delhi – 110 001

**Subject:** Addendum to Techno Economic Viability Study Report (TEV) of Project Melange Yarn manufacturing of M/s Maral Overseas Ltd., at Maral Sarovar,   
V & P.O. Khalbujurg, Tehsil Kasrawad, Dist. Khargone,   
Madhya Pradesh - 451 660.

Sir,

Pursuant to appointment letter, dated 15.10.2019, from Assistant General Manager, Union Bank of India, Mid Corporate Branch Delhi (S), 26/28-D, Connaught Place, New Delhi – 110001 appointing M/s Vastukala Consultants (I) Pvt. Ltd., Mumbai, vide ref. MCB(S):ADV:MOL:22-23:104, dated **16/04/2022,** for conducting Techno Economic Viability Study (TEV) of M/s Maral Overseas Ltd.’s project of addition of spinning unit at its existing Sarovar Plant with 18864 spindles to produce **Melange yarn** at a total project cost of Rs. 122.94 Cr and sanctioning of loan to the extent of Rs. 92.20 Cr to part finance the project., we have inspected the project site and referred various documents, information and held discussions with company and bank officials and submitted the TEV Study Report with outward no. Union Bank of India, Maral Overseas Ltd., 25376 /41403 dated **02/07/2022** to the bank.

Post submission of TEV Study Report, Union Bank of India has sanctioned Term loan (fresh) of INR 92.20 Cr, vide credit letter ref. no. ADV:457:2022-23, dated **14/09/2022.** The Company commenced and raised the purchase orders.   
In the course of implementation of project, the Company changed the vendors of few machines and added erection services as against the original vendors listed in the TEV Study report. The changes are discussed in the Addendum report.

Union Bank of India has instructed to re-assess the outcome of change in vendors of few project machines on the technical viability of the project. Pursuant to instructions from the bank, we have studied the purchase orders raised of those machines of new vendors and erection services and compared it with the original TEV study report and its effect on the project.

The new vendors are well known in the industry and can be relied upon. We are of the opinion that the changes in the vendors of few project machines and addition of erection services is for faster execution and moreover the project cost remains similar to the original and that there is no effect on technical feasibility of the project.

**DATE:- 18/09/2023**

**PLACE:- MUMBAI.**

**AUTHORIZED SIGNATORY**

**Vastukala Consultants (I) Pvt. Ltd., Mumbai**

**Report No. Union Bank of India / Maral Overseas Ltd. (\_\_\_\_\_\_/\_\_\_\_\_\_)**

***……..ADDENDUM TO TEV STUDY REPORT***

**ADDRESSES ……1**

**There are no changes in the location and addresses of MOL textile and garment manufacturing units and project site.**

|  |
| --- |
| MOL’s Textile mill - Spinning, dyeing, knitting, processing |
| Maral Sarovar, V & PO Khalbujurg, Tehsil Kasarwad,  Dist. Khargone – 451660, Madhya Pradesh. |

**MARAL GARMENTS MANUFACTURING UNITS ADDRESS:**

|  |  |
| --- | --- |
| Unit No. | MOL’s Garment Manufacturing units |
| 1. | A-11, Hosiery Complex, Phase –II Extension, Noida – 201305, Uttar Prradesh. |
| 2. | C-126, Sector 63, Noida 201 307, Uttar Pradesh. |
| 3. | D-347, Sector 63, Noida 201 307, Uttar Pradesh |
| 4. | J-37, Sector -63, Noida -201 307, Uttar Pradesh |
| 5. | Faridabad Unit at 12/4 Sector, Main Mathura Road, Faridabad, Haryana |

J37 is RM storage facility only.

**CORPORATE OFFICE:**

|  |
| --- |
| MOL’s Corporate Office at |
| Bhilwara Towers, A-12, Sector 1, Noida- 201 301, Uttar Pradesh  [www.maraloverseas.com](http://www.maraloverseas.com/) |

**REGISTERED OFFICE & PROJECT SITE:**

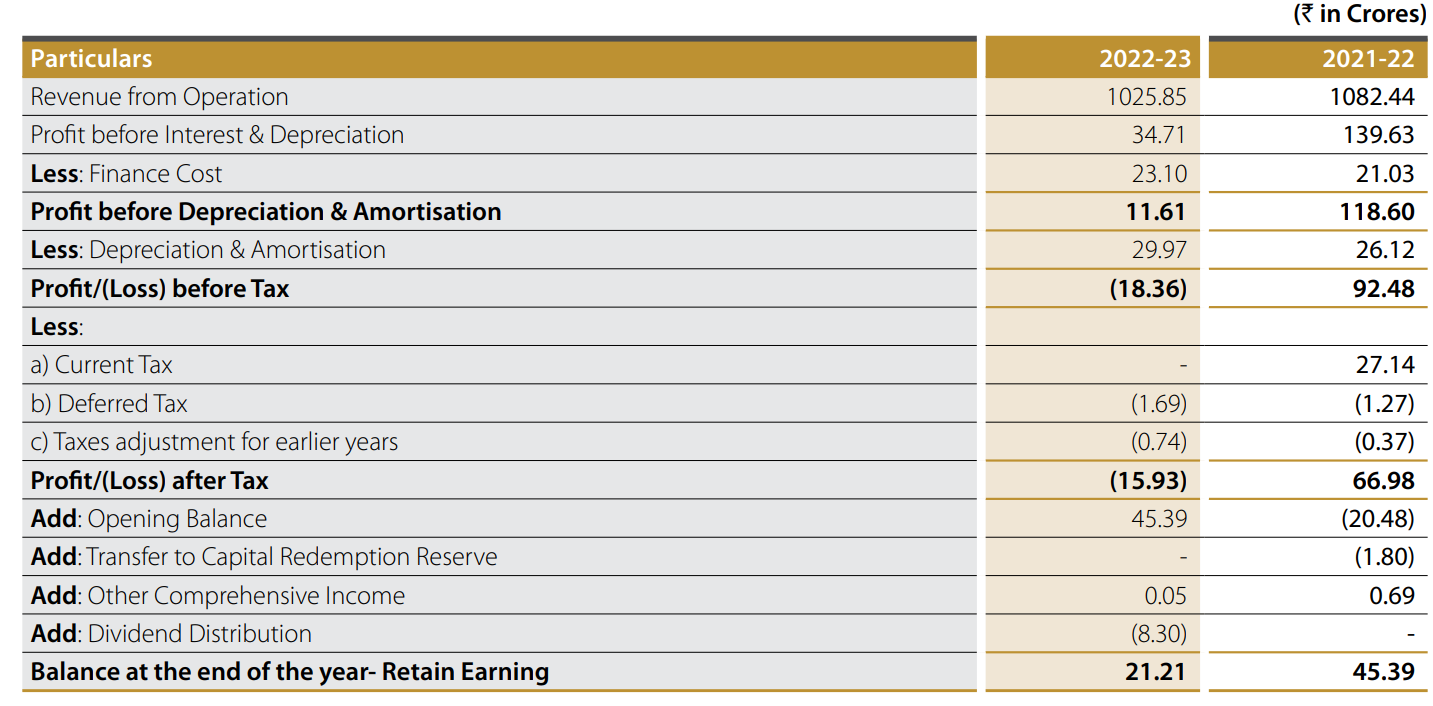
|  |
| --- |
| MOL’s Registered Office at |
| Maral Sarovar, V & PO Khalbujurg, Tehsil Kasrawad,  Dist. Khargone – 451660, Madhya Pradesh. |

***……..ADDENDUM TO TEV STUDY REPORT***

**AUDITED RESULTS ……2**

**ANNUAL REPORT 2023.**

**Financial Results: -**

****

**The Company reported losses in FY 23. The losses were because of slow down in US and Europe.**

**In FY 24, the estimated revenue from operations and profit / loss is   
INR 1241.63 Cr & INR 18.25 Cr respectively. The revenue from operations for period of till 1st Quarter is INR 231.00 Cr.**

**The melange project is envisioned to commence commercial operations from 31 December 2023.**

***……..ADDENDUM TO TEV STUDY REPORT***

**MELANGE YARN PROJECT …..3**

**The TEV Study was conducted for proposed additions of 18,864 spindles for producing yarn at Maral Sarovar with an estimated outlay of INR 122.94 Cr. It is termed as “MELANGE YARN PROJECT”. The project has 3 components, viz, Cotton Section, Melange Yarn Section & Fibre Dyeing Section. Presently there are no changes in the project proposed capacities. The existing and proposed additions are similar as listed under,**

|  |  |  |  |
| --- | --- | --- | --- |
| S No. | Product Description | Existing Annual Capacity | Proposed Additions |
| 1. | No. of Spindles | 80256 + TFO 3490 | 18864 in Melange project |
| 2. | Cotton Grey Yarn | 19296 MT | No additions |
| 3. | Cotton Dyed Yarn | 3480 MT | 1518 MT in Melange project |
| 4. | Cotton Grey Fabric | 5400 MT | 1640 MT |
| 5. | Cotton Dyed Fabric | 7200 MT | 1680 MT |
| 6. | Cotton Melange Yarn | - | 3834 MT |

**The total additions are as under,**

|  |  |  |  |
| --- | --- | --- | --- |
| S No. | Product Description | Proposed Additions | Existing + Proposed |
| 1. | No. of Spindles | 18864 in Melange project | 99120 |
| 2. | Cotton Grey Yarn | No additions | 19296 MT / Annum |
| 3. | Cotton Dyed Yarn | 1518 MT in Melange project | 4998 MT / Annum |
| 4. | Cotton Grey Fabric | 1640 MT in capex | 7040 MT / Annum |
| 5. | Cotton Dyed Fabric | 1680 MT in capex | 8880 MT / Annum |
| 6. | Cotton Melange Yarn | 3834 MT | 3834 MT / Annum |

#### Products to be manufactured of Melange Yarn are of Counts from 12 to 34 like, Melange Yarn, Slub Yarn, Grindle Yarn, Neps, Snow Melange. The products are not changed.

#### 

***……..ADDENDUM TO TEV STUDY REPORT***

**CHANGES IN PROJECT PLANT AND MACHINERY .…4**

The **change** of **vendor** for few project plant and machinery in the original list of TEV study report is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Particulars** | **Make** | **Imp / Ind** | **Qty** | **Remark** |
| **1** | **SPINNING PLANT & MACHINERY** |  |  | Nos. |  |
| **(A)** | **COTTON SECTION** |  |  |  |  |
| 1. | Blow Room | LMW | Indigenous | 1 | Original |
| 2. | Fine Feed Chute LA7/6 | LMW | Indigenous | 15 | Original |
| 3. | CARD LC631 | LMW | Indigenous | 14 | Original |
| 4. | CARD LC631 With Card Accessories | LMW | Indigenous | 1 | Original |
| 5. | Draw Frame Twin Delivery LDB3 | LMW | Indigenous | 1 | Original |
| 6. | Draw Frame Single Delivery LDB3 | LMW | Indigenous | 1 | Original |
| 7. | Lap Former | LMW | Indigenous | 1 | Original |
| 8. | COMBER LK69 | LMW | Indigenous | 5 | Original |
| 9. | Contamination Sorter | Loptex | Imported | 1 | Original |
| 10. | Manual Bale Press ( Noil & Sliver) | Luwa | Indigenous | 2 | Original |
| 11. | Sliver Cutter | Creative | Indigenous | 4 | Original |
|  |  |  |  |  |  |
| (B) | **MELANGE SECTION** |  |  |  |  |
| 12. | MBO lines ( 4 Lines ) | LMW | Indigenous | 4 | Original |
| 13.. | MBO/Condensers for toppling | LMW | Indigenous | 3 | Original |
| 14. | Fine Feed Chute LA7/6 | LMW | Indigenous | 20 | Original |
| 15. | CARD LC631 | LMW | Indigenous | 20 | Original |
| 16. | Draw Frame Twin Delivery LDB3 | LMW | Indigenous | 3 | Original |
| 17. | Draw Frame Single Delivery LDB3 | LMW | Indigenous | 1 | Original |
| 18. | Draw Frame Single Delivery LDF3 S | LMW | Indigenous | 7 | Original |
| 19. | Speed Frame - 120/ 140 Spindles | LMW | Indigenous | 7 | Original |
| 20. | Ring Frame - 720 Spindles | LMW | Indigenous | 13 | Original |
| 21. | Ring Frame - 720 Spindles (Compact) | LMW | Indigenous | 6 | Original |
| 22. | Ring Frame - 672 Spindles | LMW | Indigenous | 6 | Original |
| 23. | Small Ring Frames for lot run out (1152  Spindle / Four Machine) (Two Old Machine) | LMW | Indigenous | 1 | Original |
| 24. | Autoconer RM Type - 72 Drum | Rieter | Imported | 5 | Original |
| 26. | Semi-Automatic Packing | Signod | Indigenous | 1 | Original |
| 27. | OHTC | SIEGER | Indigenous | 36 | Vendor Changed |
| 28. | Pilot Plant for development | Trytex | Indigenous | 1 | Original |
| 29. | Yarn Conditioning | Xorrela | Imported | 1 | Original |
| 30. | Fire diversion system | Sri Lakshmi | Indigenous | 2 | Vendor Changed |

EL

……The **change** of **vendor** for few project plant and machinery in the original list of TEV study report is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Particulars** | **Make** | **Imp / Ind** | **Qty** | **Remark** |
| (C) | **Spinning Accessories** |  |  |  |  |
| 31. | Card Cans | RIMTEX | Indigenous | 1 | Vendor Changed |
| 32. | Br D/Frame Can | RIMTEX | Indigenous | 1 | Vendor Changed |
| 33. | Comber Can | RIMTEX | Indigenous | 1 | Vendor Changed |
| 34. | D/F FR Can | RIMTEX | Indigenous | 1 | Vendor Changed |
| 35. | Simplex Bobbins | Ideal | Indigenous | 1 | Vendor Changed |
| 36. | Ring Frame bobbins | Ideal | Indigenous | 1 | Vendor Changed |
| 37. | Crates, Trollies, Yarn Condition Trolley etc. | Local | Indigenous | 1 | Original |
| 38. | Weighing Scale | Local | Indigenous | 1 | Original |
|  |  |  |  |  |  |
| 39 | **Maintenance Machines** |  |  |  |  |
| i | Grinding M/C | PERFECT | Indigenous | 1 | Vendor Changed |
| ii | Stone Cleaning Device | PERFECT | Indigenous | 1 | Vendor Changed |
| iii | Perfect Flutted Roller Turning M/c | PERFECT | Indigenous | 1 | Vendor Changed |
| iv | Perfect Spindle Lubricant M/c | PERFECT | Indigenous | 1 | Vendor Changed |
| v | Perfect Ultra Violet Top Roller | PERFECT | Indigenous | 1 | Vendor Changed |
| vi | Perfect Automatic Top Roll Greasing M/c | PERFECT | Indigenous | 1 | Vendor Changed |
| vii | Perfect Arbour Flushing/ Cleaning Machine | PERFECT | Indigenous | 1 | Vendor Changed |
|  |  |  |  |  |  |
| 40 | **Lab Equipment's** |  |  |  |  |
| i | Uster Tester 6 with Hairiness module | Uster | Imported | 1 | Original |
| ii | TurboMaxx7 (RKM Tester) | Premier | Indigenous | 1 | Original |
| iii | Nati (Neps checking Instrument) | Mesdan | Imported | 1 | Original |
| iv | Splice Strength Tester | Mesdan | Imported | 1 | Original |
| v | Friction Tester | Mesdan | Imported | 1 | Original |
| vi | Spectrophotometer | Data Colour | Imported | 1 | Original |
| vii | Auto Wrap XT (Wrap Reel) | MAG | Indigenous | 1 | Original |
| viii | Fibro Block (Wrap Block) | MAG | Indigenous | 1 | Original |
| ix | Yarn Twist Tester | MAG | Indigenous | 1 | Original |
| x | Weighing Balance (210 gm) | MAG | Indigenous | 1 | Original |
| xi | Weighing Balance (3.0 Kg)) | MAG | Indigenous | 1 | Original |
| xii | PC for Office work + Printer | HP | Indigenous | 2 | Original |
| xiii | Combo data DXT (Computerized Lea CSP) | MAG | Indigenous | 1 | Original |
| xiv | Motorized Yarn Appearance board | MAG | Indigenous | 1 | Original |
| xv | Moisture Meter | MAG | Indigenous | 1 | Original |

……The **change** of **vendor** for few project plant and machinery in the original list of TEV study report is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S No.** | **Particulars** | **Make** | **Imp / Ind** | **Qty** | **Remark** |
| Xvi | Hot air Oven Dryer | Metlab | Indigenous | 1 | Original |
| xvii | Hot Plate | Local | Indigenous | 1 | Original |
| xviii | Circular Knitting machine (Sampling) (6 Feeder) | Ludhiana | Indigenous | 1 | Original |
| xix | Circular Knitting machine (Sampling) (12 Feeder) | Ludhiana | Indigenous | 1 | Original |
| Xx | Washing Machine | LG / IFB | Indigenous | 1 | Original |
| xxi | Shade Matching Cabinet / Light Box | PPT, UK | Imported | 1 | Original |
| xxii | Stelometer. (Dyed Fiber Strength measurement) | MAG | Indigenous | 1 | Original |
| xxiii | Swatch Cutter | SG | Indigenous | 1 | Original |
| xxiv | Label Printer (GT 800 TM) | Zebra | Indigenous | 1 | Original |
| xxv | Miscellaneous. (To Set up Shade Library / Studio) | - | Indigenous | 1 | Original |
| Xv | Moisture Meter | MAG | Indigenous | 1 | Original |
| **5** | **Electricals** |  |  |  |  |
| I | Transformer 2000 KVA dry type with OLTC | Voltamp | Indigenous | 2 | Original |
| II. | HT Panel - 3 nos. breaker | Local | Indigenous | 1 | Original |
| iii | Battery charger | Local | Indigenous | 1 | Original |
| Iv | L T Panel | Local | Indigenous | 1 | Original |
| V | Power distribution board | Local | Indigenous | 1 | Original |
| vi | Bus trunking with tap off box | Local | Indigenous | 1 | Original |
| vii | Power cables | Local | Indigenous | 1 | Original |
| viii | Control cable | Local | Indigenous | 1 | Original |
| Ix | Capacitor with APFC panel for PDB's | Local | Indigenous | 1 | Original |
| X | Panel room air cooling | Local | Indigenous | 1 | Original |
| Xi | Lighting | Local | Indigenous | 1 | Original |
| Xii | Earthing material | Local | Indigenous | 1 | Original |
| xiii | Cable tray and structure | Local | Indigenous | 1 | Original |
| Xiv | Water coolers and air conditioners | Local | Indigenous | 7 | Original |
| Xv | Power cable plant 300 A XLPE and HT breaker | Local | Indigenous | 415 | Original |
| xvi | HT breaker at TPP | Local | Indigenous | 1 | Original |
| xvii | Misc. electrical | Local | Indigenous | 1 | Original |
|  |  |  |  |  |  |
| **6** | **Utilities** |  |  |  |  |
| A | Compressor and piping | Local | Indigenous |  | Original |
| ii | Compressed air supply pipe line and vertical air receiver - 2 nos., cooling tower and its water supply pump/ pipe line with accessories | Local | Indigenous | 1 | Original |
| iii | Extension of airline header from DG house to mill - 100 NB | Local | Indigenous | 1 | Original |

……The **change** of **vendor** for few project plant and machinery in the original list of TEV study report is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S No.** | **Particulars** | **Make** | **Imp / Ind** | **Qty** | **Remark** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| B | Humidification plant with PEB without /Bale Press - civil construction | LUWA | Indigenous | 1055000 | Original |
| C | Supply air ducting and insulation | LUWA | Indigenous | 1 | Original |
| D | Material and waste collection ducting | LUWA | Indigenous | 1 | Original |
| E | Air condensing plant for QA deptt. | Local | Indigenous | 1 | Original |
| F | Water supply system | Local | Indigenous | 1 | Original |
| G | Narmada main water supply line shifting | Local | Indigenous | 1 | Original |
| H | Misc. horticulture water supply line shifting | Local | Indigenous | 1 | Original |
|  |  |  |  |  |  |
| **7** | **Fire safety** |  |  |  |  |
| I | Hydrant pipe line network | Local | Indigenous | 1 | Original |
| Iii | First aid fire hand appliances and hose reels | Local | Indigenous | 1 | Original |
|  |  |  |  |  |  |
| **8** | **Material handling** |  |  |  |  |
| **I** | Battery operated fork lift 3 tons capacity with  bale clamp attachment | Godrej | Indigenous | 1 | Original |

#### PO No. CMD2200522, dated 04-03-23, is raised with new vendor for procurement of OHTC, refer Ch. No. 5, S. No. A.

#### PO No. CMD2200037 & CMI2200038, dated 31-03-23, is raised with new vendor for procurement of Spark Detector & HTC (fire diversion system), refer Ch. No. 5, S. No. H & I

#### PO No. CMD2200413, dated 11-01-23, is raised with new vendor for procurement of Spinning Accessories – Cans, refer Ch. No. 5, S. No. B.

#### PO No. CMD2200480, dated 28-01-23, is raised with new vendor for procurement of Spinning Accessories - Bobbins, refer Ch. No. 5, S. No. C.

#### PO No. CMD2200414, dated 11-01-23, is raised with new vendor for procurement of Maintenance Machinery, refer Ch. No. 5, S. No. D.

#### 

……The **change** of **vendor** for few project plant and machinery in the original list of TEV study report is as under,

#### FIBRE DYEING PROJECT MACHINES

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S No.** | **Particulars** | **Make** | **Imp / Ind** | **Qty** | **Remark** |
|  | **Fiber dyeing machines** |  |  |  |  |
| 1. | Fiber dyeing machine 500 kgs. | Cubotex | Imported | 2 | Vendor Changed |
| 2. | Fiber dyeing machine 250 kgs. | Cubotex | Imported | 1 | Vendor Changed |
| 3. | Fiber dyeing machine 100 kgs. | Cubotex | Imported | 1 | Vendor Changed |
| 4. | Fiber dyeing machine 50 kgs. | Cubotex | Imported | 1 | Vendor Changed |
| 5. | Fiber dyeing machine 25 kgs. | Cubotex | Imported | 1 | Vendor Changed |
| 6. | Fiber dyeing machine 3 X 8 kgs. | Cubotex | Imported | 1 | Vendor Changed |
| 7.. | Fiber dyeing machine 1 Kg | Cubotex | Imported | 1 | Vendor Changed |
| 8. | Hydro extractor mod.1700 for centrifugal plates of 500/250 kgs. | Cubotex | Imported | 2 | Vendor Changed |
| 9. | Dryer - (RF / Steam) | Cubotex | Imported | 1 | Vendor Changed |
| 10 | Bailing press for Dyed Fibre | Tynitop | Indigenous | 1 | Original |
|  |  |  |  |  |  |
| **B** | **Lab equipment's** |  |  |  |  |
| 1 | Lab machines setup | Various | Indigenous | 1 | Original |
|  |  |  |  |  |  |
|  | **Over head crane** |  |  |  |  |
| 1 | 5 MT overhead travelling crane with electric hoists | Safex | Indigenous | 1 | Original |
|  |  |  |  |  |  |
|  | **Electricals** |  |  |  |  |
| 1 | Main cubical feeder with 800 amp. air circuit breaker | Local | Indigenous | 1 | Original |
| 2 | Power distribution board with one incomer & 5 O/G Feeder | Local | Indigenous | 3 | Original |
| 3 | PVC Armor Aluminum cable 3.5 core x 300 sq.mm \* 3 Run | Local | Indigenous | 780 | Original |
| 4 | PVC Shielded copper cable from PDB to machine | Local | Indigenous | 400 | Original |
| 5 | Earthing electrodes and earthing strips etc. | Local | Indigenous | 1 | Original |
| 6 | Lighting | Local | Indigenous | 1 | Original |
| 7 | Hardware for cabling work - al. lugs, cable gland, cable tray, insulation mat. | Local | Indigenous | 1 | Original |
| 8 | Labor Charges | Local | Indigenous | 1 | Original |
| 9 | Misc. expenses |  | Indigenous | 1 | Original |
|  |  |  |  |  |  |

……The **change** of **vendor** for few project plant and machinery in the original list of TEV study report is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S No.** | **Particulars** | **Make** | **Imp / Ind** | **Qty** | **Remarks** |
|  | **Fiber dyeing machines** |  |  |  |  |
|  | **Utilities** |  |  |  |  |
| 1 | Vertical air receiver - 3 cum with accessories | Local | Indigenous | 1 | Original |
| 2 | Compressed air supply pipe line | Local | Indigenous | 1 | Original |
| 3 | Water supply system for drinking and utilities | Local | Indigenous | 1 | Original |
| 4 | Steam line with fitting and valves 150 NB  with insulation | Local | Indigenous | 1 | Original |
| 5 | PRS for steam line | Local | Indigenous | 1 | Original |
| 6 | Condensate handling PPPU pump and pipe line | Local | Indigenous | 1 | Original |
| 7 | Cooling return line | Local | Indigenous | 1 | Original |
| 8 | MS hot water tank with FRP lining with insulation - 1\*25 KL, pumps with its distribution system | Local | Indigenous | 1 | Original |
| 9 | Cold water pumps with its distribution system | Local | Indigenous | 1 | Original |
| 10 | Effluent collection tanks and its transfer to ETP | Rochem | Indigenous | 1 | Original |
| 11 | ETP augmentation | Local | Indigenous | 1 | Original |
| 12 | Misc. utilities | Local | Indigenous | 1 | Original |
|  |  |  |  |  |  |
|  | **Fire safety** |  |  |  |  |
| 1 | Hydrant pipe line network | Local | Indigenous | 1 | Original |
| 2 | First aid fire hand appliances and hose reels | Local | Indigenous | 1 | Original |
|  |  |  |  |  |  |

#### PO No. CMD2200331, dated 19-10-22, is raised with new vendor for procurement of Fibre Dyeing Machinery, refer Ch. No. 5, S. No. E,

#### PO No. CMD2200461, dated 23-01-2023, is raised with new vendor for procurement of Hydro extractor mod.1700 for centrifugal plates of 500/250 kgs, refer Ch. No. 5, S. No. F.

#### PO No. CMD2200331, Date 19-10-22, is raised with new vendor for procurement of Dryer RF / Steam, refer Ch. No. 5, S. No. G.

**The Company has also changed / added the vendors for following project machinery as listed under,**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Particulars** | **Vendor / Make** | **Imp / Ind** |
|  | **Mélange Section** |  |  |
| H. | Spark Detector Line Module | Fagus Greten GMBH & Co. Kg | Imported |
| I. | Metron 05 Power Line Metal Part Mc SPG | Mesutronic Geratebau gmbh | Imported |
| J. | Roving Waste Opener Machine | Vishwa Engineering | Indigenous |
| K. | Erection of Melange Project Machinery | Universal MEP Proj.& Eng. Ser. Ltd. | Indigenous |
| L. | Erection of Spinning Project Machinery | Shree Engineering | Indigenous |
| M. | Disc Check Valve | Aar Industrial Products | Indigenous |
| N. | SS Pipe and fittings | Chaman Metal & Engg.Co. | Indigenous |
| O. | Steam Globe Valve of various sizes | Techno Vision Services | Indigenous |
| P. | Valve for Thies Sample Yarn Dyeing Mc 10 KG | Burkert India Pvt. Ltd. | Indigenous |
| Q. | Erection of Fiber Dyeing Machinery | Rayon Applied Engineers | Indigenous |
| R. | Wet Fibre Opener | Astha Taconic Pvt. Ltd. | Indigenous |

#### Fire diversion system is changed with Spark Detector Line Module & Metron 05 Power Line Metal Part Mc SPG

#### Roving waste opener machine is for Melange Section. It is new addition.

#### Valves, pipes and fittings vendors are changed.

#### Earlier the erection was planned by inhouse team. Now it is given to separate agency, which is acceptable.

#### Refer Ch. No. 5, S. No. G to R, for PO numbers.

***……..ADDENDUM TO TEV STUDY REPORT***

**CHANGES IN PROJECT MACHINERY …..5**

The list of indigenous and imported machines **changed** in the Melange project as per purchase order raised is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S No. | Description and Specification of material | Qty | Vendor / Make | PO Value (INR) | Remark |
| **A** | **PO No. CMD2200522, Date 04-03-23** | **set** |  |  |  |
| 1. | OHTC Ring Frame 720 Spindles | 7 | Elgi Electrics & Industries Ltd., Coimbatore. **(Indigenous)** | 9,31,770.00 | Change in vendor. |
| 2. | OHTC Ring Frame 720 (Compact) Spindles | 12 | 16,51,320.00 |
| 3. | OHTC Ring Frame 672 Spindles | 6 | 7,80,300.00 |
| 4. | OHTC Ring Frame 336 Spindles | 2 | 2,73,060.00 |
| 5. | OHTC Ring Frame 240 Spindles | 2 | 2,73,060.00 |
| 6. | EJWCS - Centralized Waste Collection 10/09 | 2 | 1,66,500.00 |
| 7. | Speed Frame 140 Spindles | 6 | 8,99,640.00 |
| 8. | EJWCS - Centralized Waste Collection 10/08 | 1 | 83,250.00 |
|  | **TOTAL** |  | **50,58,900.00** |
|  | **GST** |  | **9,10,602.00** |
|  | **TOTAL PO VALUE** |  | **59,69,502.00** |
| **B** | **PO No. CMD2200413, Date 11-01-23** | **Nos.** |  |  |  |
| 1. | Card Can Size 40" X 48" | 190 | Jumac Manufacturing Pvt. Ltd., Kolkata. **(Indigenous)** | 12,54,000.00 | Change in vendor. |
| 2. | Card Can Size 24" X 48" | 380 | 10,35,500.00 |
| 3. | Card Can Size 20" X 48" | 1550 | 34,87,500.00 |
|  | **TOTAL** |  | **57,77,000.00** |
|  | **GST** |  | **10,39,860.00** |
|  | **TOTAL PO VALUE** |  | **68,16,860.00** |
| **C** | **PO No. CMD2200480, Date 28-01-23** | **Nos.** |  |  |  |
| 1. | Ring Frame Bobbin | 120000 | Mokhsa Thermoplastics Pvt. Ltd. **(Indigenous)** | 21,30,000.00 | Change in vendor. |
| 2. | Speed Frame Bobbin | 32000 | 30,72,000.00 |
|  | **TOTAL** |  | **52,02,000.00** |
|  | **GST** |  | **9,36,360.00** |
|  | **TOTAL PO VALUE** |  | **61,38,360.00** |
| **D** | **PO No. CMD2200414, Date 11-01-2023** | **Nos.** |  |  |  |
| 1. | Sagar Auto Twin Head Cot Grinding Machine | 1 | Rishabh Sagar Textile Equipment’s Pvt. Ltd, Ahmedabad. **(Indigenous)** | 11,73,620.00 | Change in vendor. |
| 2. | Sagar Fully Motorised Eccentricity & Taper Tester Machine. | 1 | 58,094.00 |
| 3. | Sagar Hand Cot Mounting / De Mounting Mc. | 1 | 23,179.00 |
| 4. | Sagar Heavy duty Fully hydraulic Cot Mounting / De Mounting Machine. | 1 | 1,81,618.00 |
| 5. | Sagar Fully Automatic Top Roller Greasing machine with PLC | 1 | 1,64,307.00 |
| 6. | Sagar Fully Automatic Arbour Flushing Mc with PLC | 1 | 2,17,120.00 |
| 7. | Sagar Auto UV TOP Roller Treatment Mc. | 1 | 3,87,294.00 |
| 8. | Sagar Fluted Roller Trueing Machine | 1 | 56,010.00 |
| 9. | Sagar Spindle Oil Maintenance Machine. | 1 | 1,59,758.00 |
|  | **TOTAL** |  | **24,21,000.00** |  |
|  | **GST** |  | **4,35,780.00** |  |
|  | **TOTAL PO VALUE** |  | **28,56,780.00** |  |

**…….**The list of indigenous and imported machines **changed** in the Melange project as per purchase order is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S No. | Description and Specification of material | Qty | Vendor / Make | PO Value (INR) | Remark |
| **E** | **PO No. CMD2200331, Date 19-10-2022** | |  |  |  |
| 1. | Fiber Dyeing 15 kg Machine -1 | 1 No. | Dalal Engineering Pvt. Ltd., Mumbai. **(Indigenous).** | 46,24,000.00 | Change in vendor. |
| 2. | Fiber Dyeing 15 kg Machine -2 | 1 No. | 39,38,000.00 |
| 3. | Fiber Dyeing 50 kg Machine-1 | 1 No. | 52,58,000.00 |
| 4. | Fiber Dyeing 250 kg Machine-1 | 1 No. | 88,59,000.00 |
| 5. | Fiber Dyeing 250 kg Machine-2 | 1 No. | 84,90,000.00 |
| 6. | Fiber Dyeing 500 kg Machine-1 | 1 No. | 1,03,35,000.00 |
| 7. | Fiber Dyeing 2 kg Machine for Lab | 1 No. | 21,61,000.00 |
| 8. | Fiber Dyeing 500 kg Machine-2 | 1 No. | 1,03,35,000.00 |
| 9. | Fiber Dyeing 15 kg Machine -2 | 1 No. | 1,86,000.00 |
|  | **TOTAL** |  | **5,41,86,000.00** |
|  | **GST** |  | **97,53,480.00** |
|  | **TOTAL PO VALUE** |  | **6,39,39,480.00** |
| **F** | **PO No. CMD2200461, Date 23-01-2023** |  |  |  |  |
| 1. | Hydraulic Pressing Machine for Fiber Cake (300 KG) | 1 No. | Swastik Textile Engineers Pvt. Ltd., Ahmedabad **(Indigenous).** | 31,70,500.00 | Change in vendor. |
| 2. | Hydro Extractor Model DL for 250 KG Fiber Cake | 1 No. | 21,37,750.00 |
| 3. | Hydro Extractor Model S-1000 CP for 50 KG Broken Fiber Cake | 1 No. | 7,05,500.00 |
|  | **TOTAL** |  | **60,13,750.00** |
|  | **GST** |  | **10,82,475.00** |
|  | **TOTAL PO VALUE** |  | **70,96,225.00** |
| **G** | **PO No. CMD2200388, Date 13-12-2022** | |  |  |  |
| 1 | Monga Strayfield Make Radio Frequency Dryer Model SO-130TS | 1 No. | Monga Strayfield Pvt. Ltd., Pune **(indigenous)** | 65,00,000.00 | Change in vendor. |
|  | **TOTAL** |  | **65,00,000.00** |
|  | **GST** |  | **11,70,000.00** |
|  | **TOTAL PO VALUE** |  | **76,70,000.00** |
| **H** | **PO No. CMI2200037, Date 31-03-2023** |  |  |  |  |
| 1 | Spark Detector FM 1/8 | 78 Nos. | Fagus Grecon Greten GMBH, Germany. **(imported)** | Euro 18646.68 | Change in vendor. |
| 2 | Line Module for CC 1000 | 1 No. | Euro 557.8100 |
| 3 | Line Module 4 lines Binding Posts | 11 No. | Euro 8181.2500 |
| 4 | Spark Detector FM DLD 1/8A | 1 No. | Euro 743.7500 |
|  | Total PO Value |  | Euro 28129.49 |
|  | Total PO Value (INR) |  | 26,37,139.69 |
|  | Freight/Clearing/DO Exp. |  | 56,379.00 |
|  | **Total Landed Cost** |  | **26,93,518.69** |

**…….**The list of indigenous and imported machines **changed** in the Melange project as per purchase order is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S No. | Description and Specification of material | Qty | Vendor / Make | PO Value (INR) | Remark |
| **I** | **PO No. CMI2200038, Date 31-03-2023** |  |  |  |  |
| 1 | Metron 05 Power Line Metal | 4 Nos. | Mesutronic Geratebau GMBH, Germany **(imported)** | Euro 21250.00 | Change in vendor. |
|  | Total PO Value |  | Euro 21250.00 |
|  | Total PO Value (INR) |  | 19,92,187.50 |
|  | Freight/Clearing/DO Exp. |  | 1,45,542 |
|  | **Total Landed Cost** |  | **21,37,729.5** |
| **J** | **PO No. CMD230062, Date 03-05-23** |  |  |  |  |
| 1. | Roving Opener | 1 no. | Vishwa Engineering, Ahmedabad **(indigenous)** | 5,05,000.00 | New addition |
|  | **TOTAL** |  | **5,05,000.00** |
|  | **GST** |  | **90,900.00** |
|  | **TOTAL PO VALUE** |  | **5,95,900.00** |
| **K** | **PO No. CSD230015, Date 18-04-23** |  |  |  |  |
| 1. | Erection of Melange Project Machinery | As per PO | Universal MEP Proj. & Eng. Serv. Ltd., Indore **(indigenous)** | 10,00,000.00 | Earlier it was inhouse |
|  | **TOTAL** | **10,00,000.00** |
|  | **GST** |  | **1,80,000.00** |
|  | **TOTAL PO VALUE** |  | **11,80,000.00** |
| **L** | **PO No. CSD230016, Date 20-04-23 – Engg Services** | | |  |  |
| 1. | Blow room | 1 No. | Shree Engineering, Prayagraj **(indigenous)** | 50,000.00 | Earlier the erection was planned inhouse. |
| 2. | Card LC 361 | 15 Nos. | 2,92,500.00 |
| 3. | Draw Frame Twin Delivery LDB3 | 3 No. | 21,000.00 |
| 4. | LAP Former | 1 No. | 21,000.00 |
| 5. | Comber LK 69 | 5 No. | 1,20,000.00 |
| 6. | Contamination Sorter | 1 No. | 7,000.00 |
| 7. | MBO lines + Condenser | 3 No. | 50,000.00 |
| 8. | MBO lines / Condenser for Toppling. | 3 No. | 45,000.00 |
| 9. | MBO+MO for Sample Cards | 1 | 16,000.00 |
| 10. | Card LC 631 | 20 Nos. | 3,90,000.00 |
| 11. | Draw Frame Single Delivery LDB3 | 1 No. | 7,000.00 |
| 12. | Draw Frame Twin Delivery LDF3 | 7 No. | 49,000.00 |
| 13. | Speed Frame 140 Spindle 4280 E | 6 No. | 3,30,000.00 |
| 14. | Ring Frame 720 Spindles (Auto doffer) | 7 No. | 2,92,320.00 |
| 15. | Ring Frame 720 Spindles (Compact Auto doffer) | 12 No. | 5,27,040.00 |
| 16. | Ring Frame 336 Spindles Manual) | 2 No. | 65,072.00 |
| 17. | Ring Frame 240 Spindles Manual) | 2 No. | 56,000.00 |
| 18. | Ring Frame 672 SPLS (Auto Doffer) | 6 No. | 2,40,000.00 |
| 19. | Autoconers RM Type 72 Drum | 5 No. | 1,60,000.00 |
| 20. | OHTC | 35 No. | 2,03,000.00 |
| 21. | Yarn conditioning - 1250 kgs | 1 No. | 40,000.00 |
| 22. | Erection Team for H Plant | 7 No. | 9,00,438.00 |
| 23. | Erection Team for FDP / WCS | 4 No. | 72,000.00 |
| 21. | Erection Team for Bale Press Manual | 2 No. | 78,000.00 |

**…….**The list of indigenous and imported machines **changed** in the Melange project as per purchase order is as under,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S No. | Description and Specification of material | Qty | Vendor / Make | PO Value (INR) | Remark |
| 22. | Erection Team for Bale Press Auto | 2 No. |  | 1,64,000.00 | - |
| 23. | Draw Frame Twin Delivery LDB3 | 1 No. | 8,000.00 |
|  | **TOTAL** |  |  | **42,00,000.00** |
|  | **GST** |  |  | **7,56,000.00** |
|  | **TOTAL PO VALUE** |  |  | **49,56,000.00** |
| **M** | **PO No. CMD2200540, Date 15-03-23** |  |  |  |  |
| 1. | Valves Material | Lot | Aar Industrial Products, Indore, **(indigenous)** | 5,78,282.00 | Change in vendor |
|  | **TOTAL** |  | **5,78,282.00** |
|  | **GST** |  | **1,04,090.76** |
|  | **TOTAL PO VALUE** |  | **6,82,372.76** |
| **N** | **PO No. CMD2200535, Date 15-03-23** |  |  |  |  |
| 1. | Piping Material | Lot | Chaman Metal & Engineering Co., Mumbai. **(indigenous)** | 4,23,498.60 | Change in vendor |
|  | **TOTAL** |  | **4,23,498.60** |
|  | **GST** |  | **76,229.75** |
|  | **TOTAL PO VALUE** |  | **4,99,728.35** |
| **O** | **PO No. CMD2200541, Date 15-03-23** |  |  |  |  |
| 1. | Globe Valve Material | Lot | Techno Vision Services, Indore. **(indigenous)** | 3,63,623.00 | Change in vendor |
|  | **TOTAL** |  | **3,63,623.00** |
|  | **GST** |  | **65,452.14** |
|  | **TOTAL PO VALUE** |  | **4,29,075.14** |
| **P** | **PO No. CMD2200471, Date 24-01-2023** | |  |  |  |
| 1. | Solenoid Valve 3/2 Way direct Acting Valve | 2 nos. | Burkert India Pvt. Ltd., Chennai. **(indigenous)** | 48,000.00 | Change in vendor |
| 2. | Diapgram Valve 2/2 Way Servo Assist Valve | 1 No. | 55,000.00 |
|  | **TOTAL** |  | **1,03,000.00** |
|  | **Packing & Forwarding** |  | **2,060.00** |
|  | **GST** |  | **18,910.80** |
|  | **TOTAL PO VALUE** |  | **1,23,970.80** |
| **Q** | **PO No. CMD220093, Date 17-01-23** |  |  |  |  |
| 1. | Fabrication & Erection of MS Tanks 25 KL | 4 Nos, | Rayon Applied Engineers, Indore, **(indigenous)** | 88,000.00 | Change in vendor |
|  | **TOTAL** |  | **88,000.00** |
|  | **GST** |  | **15,840.00** |
|  | **TOTAL PO VALUE** |  | **1,03,840.00** |
| **R** | **PO No. CMD2200484, Date 04-02-2023** | |  |  |  |
| 1. | Wet Fiber Opener | 1 no. | Astha Taconic Pvt. Ltd. Ahmedabad **(indigenous)** | 3,15,000.00 | Change in vendor |
|  | **TOTAL** |  | **3,15,000.00** |
|  | **GST** |  | **56,700.00** |
|  | **TOTAL PO VALUE** |  |  | **3,71,700.00** |

The cost of indigenous and imported machines (**vendor changed)** in the Melange project as per purchase order is as under,

**TOTAL COST**

|  |  |
| --- | --- |
| **Particulars of Indigenous machines** | **Amount (INR)** |
| Total Value. | 9,27,37,113.60 |
| Add Installation and incidental expenses @7% | 64,91,597.95 |
| Total Value including Installation and incidental expenses | 9,92,28,711.55 |
| GST on Installation and incidental expenses @18% | 11,68,487.63 |
| Total GST | 1,78,61,168.08 |
| **Grand total – Indigenous** | **11,70,89,879.63** |

|  |  |
| --- | --- |
| **Particulars of Imported machines** | **Amount (INR)** |
| Grand Total PO Value (INR) | 48,31,248.189 |
| Add Installation and incidental expenses @ 7% | 3,38,187.37 |
| **Grand Total PO Value (INR) with Installation and incidental expenses** | **51,69,435.56** |

**TOTAL COST IN CHANGES IN PROJECT MACHINES**

|  |  |  |
| --- | --- | --- |
| S No. | Description and Specification of material | Ttotal PO Value (INR) |
| 1 | Indigenous Machines | 11,70,89,879.63 |
| 2 | Imported Machines | 51,69,435.56 |
|  | **TOTAL** | **12,22,59,315.19** |
|  | **Say** | **INR 12.23 Cr.** |

**The total value of vendor changed project machines is INR 12.23 Cr. We have compared the changes with the original list in next chapter.**

***……..ADDENDUM TO TEV STUDY REPORT***

**COMPARISON OF COST …..6**

The cost of vendor change project machines is compared with original report (old value) as under,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S No. | Purchase Order (vendor change) | Description | New Vendor | PO Value (INR) | PO Value (INR in Cr) | Old Value (INR in Cr) |
| A | PO No. CMD2200522, Date 04-03-23 | OHTC | Elgi | 59,69,502 | 0.5970 | 0.8751 |
| B | PO No. CMD2200413, Date 11-01-23 | Card Can | Jumac | 68,16,860 | 0.6817 | 1.14 |
| C | PO No. CMD2200480, Date 28-01-23 | Bobbins | Moksha | 61,38,360 | 0.6138 | 0.5469 |
| D | PO No. CMD2200414, Date 11-01-2023 | Maintenance | Rishabh | 28,56,780 | 0.2857 | 0.6231 |
| E | PO No. CMD2200331, Date 19-10-2022 | Fiber Dyeing | Dalal | 6,39,39,480 | 6.3939 | 6.97 |
| F | PO No. CMD2200461, Date 23-01-2023 | Hydro | Swastik | 70,96,225 | 0.7096 | 1.08 |
| G | PO No. CMD2200388, Date 13-12-2022 | RF Dryer | Monga | 76,70,000 | 0.7670 | 0.3342 |
| H | PO No. CMI2200037, Date 31-03-2023 | Spark detector | Fagus | 26,93,518.69 | 0.2694 | 1.18 |
| I | PO No. CMI2200038, Date 31-03-2023 | Metron | Mesutronic | 21,37,729.50 | 0.2138 |
| J | PO No. CMD230062, Date 03-05-23 | Roving opener | Vishwa | 5,95,900 | 0.0596 |
| K | PO No. CSD230015, Date 18-04-23 | Erection | Universal | 11,80,000 | 0.1180 | Earlier inhouse planned.  - |
| L | PO No. CSD230016, Date 20-04-23 | Erection | Shree Engg. | 49,56,000 | 0.4956 |
| M | PO No. CMD2200540, Date 15-03-23 | Valves | AAR | 6,82,372.76 | 0.0682 | included in dyeing |
| N. | PO No. CMD2200535, Date 15-03-23 | Piping | Chaman | 4,99,728.35 | 0.0500 |
| O. | PO No. CMD2200541, Date 15-03-23 | Globe Valve | Techno | 4,29,075.14 | 0.0429 |
| P. | PO No. CMD2200471, Date 24-01-2023 | Valves | Burkert | 1,23,970.80 | 0.0124 |
| Q | PO No. CMD220093, Date 17-01-23 | Ms Tanks | Rayon | 88,000.00 | 0.0088 |

The cost of vendor change project machines is compared with original report as under,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S No. | Purchase Order (vendor change) | Description | New Vendor | PO Value (INR) | PO Value (INR in Cr) | Old Value (INR in Cr) |
| R. | PO No. CMD2200484, Date 04-02-2023 | Wet Fiber opener | Astha | 3,71,700 | 0.0372 | 0.0796 |
|  | **SUB TOTAL** |  |  |  | **11.4245** | **12.8289** |
|  | Add Installation and incidental expenses @7% for indigenous machinery. |  |  | 64,91,598 | 0.6492 | - |
|  | Add Installation and incidental expenses @ 7% for imported machinery |  |  | 3,38,187.37 | 0.0338 | - |
|  | **SUB TOTAL** |  |  |  | **0.6830** | - |
|  | GST on installation |  |  |  | **0.1229** | - |
|  | TOTAL installation |  |  |  | **0.8059** | - |
|  | **GRAND TOTAL** |  |  |  | **12.2304** | **12.8289** |

**Upon change of vendor of project machinery as listed above, it is observed that there is no significant change in project cost.**

***……..ADDENDUM TO TEV STUDY REPORT***

**DISCLAIMERS …..7**

* The Addendum to TEV Study report is issued based on instructions from Bank.
* We have not inspected the project site. The Addendum is issued based on the documents and information furnished to us.
* We have assessed the effect on technical viability upon change of vendors of few project machinery and addition of erection services.
* TEV Appraiser / consultant should not be held responsible if there is any conclusion / opinion from others about the viability of the project activities undertaken by the company prior to change in vendors.
* The Addendum to Techno Economic Viability (TEV) study Report is submitted on the basis that this Report & its contents will be held in complete confidence. Accordingly, by accepting a copy of this report, the recipient agrees to keep its contents and any other information, which is disclosed to such recipient, confidential and shall not divulge, distribute or disseminate any information contained herein, in part or in full, without the prior written approval of **Vastukala Consulting (I) Pvt. Ltd.** The Addendum to TEV Study report has been prepared for private circulation to the bankers for evaluating the Project This report is purely an opinion and has no legal or contractual obligation on consultant part. We have no direct or indirect interest in the company, its directors, or its project.