

Name of work : UP GRADATION OF GOVT ITI KATTAPPANA ON PAR WITH INTERNATIONAL STANDARDS-**PHASE 1-REV 3**
ESTIMATE REPORT

This estimate has been prepared based on DSR 2016 with the corresponding Cost Index (48.71 %) as published by Government of Kerala for Idukki. This estimate has been prepared for the Phase I works approved for funding by KIIFB and shall comprise of Components proposed as:-

(1).Civil Structural and Foundation estimates are considered for Academic block in two floor (Ground Floor and first floors). Phase 1 Estimate of main building is for Ground Floor with an overall Area of 1300 sqm based on drawings, For the full phase first floor area of 1283 Sqm is to be added to arrive at the intended overall area of 2583 Sqm for (G+1). Structural design and foundation calculations are done for the structure (G+1).Cost of the Foundation in Phase 1 shall include capacity for the full phase structure.(2).Along with estimate of Academic block ground floor consists of MMV workshop, plumber workshop, wireman workshop, Office staff room, Principal's Room, Vice Principal's Room, Record room and separate toilet block etc. Type of construction used for this building is RC framed structure with DMC pile footing of 13.5m depth , all walls are using autoclaved aerated cement blocks masonry. Flooring proposed is vitrified flooring except all toilet area with ceramic tiles and hard standing floor of heavy mechanic workshop with Densified flooring. All plastered surface is painted with cement based primer and two coats of acrylic emulsion paint.(3).Estimate of roads and ancillary works includes the new road surfacing using sealcoat of premixed fine aggregate over 2.5cm premix carpet surfacing over 15cm WMM over 10cm granular sub base; existing roads are used in the path way by overlaying with 2.5cm premix carpet and premix seal coat.1m wide 10cm thick RC footpath over 10cm thick sub grade with expansion joints and sides laid with factory made kerb stone and top of foot path finished with vision impaired tactile tile are proposed on one side of the road and other side provided with RC drain cover with precast slab.(4).Civil Structural and Foundation estimates of front gate structure and security cabin included.(5).Estimates of compound wall included.(6).Services including internal and external Plumbing for water supply, sewerage and rain water harvesting area Gravity Feed water supply distribution system has been proposed using PVC pipes 10kg/cm² pvc pipes.For sewerage and rain water PVC 6kg/cm² pipes are proposed .(7). Estimate of furniture work includes new ergonomic furniture and Lecturer Table, Podium etc for 3 nos of new workshop and 10 nos of existing class rooms and administrative section in main building also.(8).Signage works are included in the estimate.(9) Land development works are included in the estimate.(10) Signage works are included in the estimate.(11).Electrical system includes the the supply, installation, testing and commissioning of new 160 KVA DG set, MSB with changeover ,earthing, LV panels, cabling (HT and LV), DB and accessories, light and fan fixtures, external lighting etc. as per KEI rule. Electrification is considered for proposed Main building, front security cabin & external lighting.(12) ELV system includes CCTV, PAS, LAN, Telephone and interactive boards.The existing (10 no's) smart

classrooms are provided with LAN, CCTV, PAS, interactive board, projector and biometric attendance system.(13) HVAC system is provided for only Principal room in the Main building with 2TR split unit. Ventilation for toilet is done by exhaust fans.(14) FIRE FIGHTING system for proposed main building is provided as per NBC 2016. Terrace pump with down comer system, fire hose reel, fire hose cabinet, fire extinguishers & fire brigade inlet is provided for the buildings. 10KL steel OH Tank is given for main building as fire tank. Any item rate mentioned as 2019 Fire DSR & AOR has been multiplied by cost index of 1.2854. (15)Any unforeseen item accounted in contingencies. Please find the attached estimate of current construction cost of this project totaling Rs 5,76,34,500 inclusive of GST.



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