Minutes of Meeting
of the
Buildings & Works Committee (BWC) - 2022:01
of National Institute of Technology Calicut

Held at 11.30 am on Tuesday the 19th July 2022

at Board Room – Admin Block A

National Institute of Technology Calicut
NITC PO – 673601
Kozhikode, Kerala

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

BUILDING AND WORKS COMMITTEE MEETING (2022:01)

held on 19.07.2022, 11.30 am at Board Room– Admin Block A

The meeting of Building and Works Committee (BWC) (2022:01) of NIT Calicut was conducted on 19th July 2022 at Board room of NIT Calicut.

Members Present:

1.	Prof. Prasad Krishna	Director, NIT Calicut & Chairman BWC
2.	Prof. Sathidevi. P. S	Dy. Director, NIT Calicut (invitee)
3.	Cdr (Dr.) Shamasundara M S	Registrar, NIT Calicut & Secretary BWC
4.	Dr. Naseer M.A.	Dean (P&D), NIT Calicut
5.	Dr. Chithra. K	Associate Professor (DAP), NITC, Nominee of BoG,
6.	Shri. Anil Kumar	Director (Finance), Department of Higher Education, MoE, GoI (via Online)
7.	Shri. M.L.Soni	Director (NITs) (via Online)
8.	Shri. A. Mohammed	Superintending Engineer, KPWD (via Online)
9.	Smt. Shaji Sudhakaran	Deputy Chief Engineer, Electrical Circle Kozhikode (via Online)
10.	Dr. Sajith A S	Superintending Engineer(*i/c*), NIT Calicut (Invitee)

The Secretary welcomed all for the meeting and informed that quorum (minimum 03 members) have been met. The Chairman called the meeting to the order and requested Dean(P&D) to proceed with the agenda. The minutes of the meeting are enumerated in succeeding paragraphs.

2022:01:01 - Confirmation of the minutes of the BWC meetings held on 28-07-21

The minutes of BWC meeting held on 28.07.2021 was circulated and no comments were received from any of the members. The meeting confirmed the minutes held on 28.07.2021

The BWC noted the action taken report.

2022:01:02 - Consideration of proposal for urgent maintenance works of B Block of Mega Hostel –I including interior painting work

The committee observed that the Mega Hostel I project was envisaged to provide facility of 1000 dwelling rooms including necessary amenities for students including 1500 seated Dining area, modern Kitchen facility, Laundry facility, Recreational facility, Elevators, etc. Total built-up area for the entire project is around 44750 square meters comprising four interconnected building blocks (Blocks A, B, C & D). The Block-A & Block-B are the residential blocks, each comprising 500 individual dwelling rooms altogether totaling 1000 rooms. Block-C is the reception Block consisting of reception, store, medical/sick room, study room, Warden Office, etc. Block-D constitutes three dining halls (veg, non-veg, tandoori) each with 500-person seating capacity with modern kitchen facilities, gymnasium hall, laundry area, recreation hall, lumber room, etc.

The committee also noted that based on a bidding process, M/s. Era Infra form New Delhi quoted the lowest amount of Rs. 88.78 crores after negotiation (rebate of 2.1% offered by Contractor) for Civil, Electrical and Firefighting works and was selected as the Contractor. The agreement between contractor and Institute was signed on 30 January 2009. The planned time for completion of the project was 30 months. But during this time period, the percentage of work completed was only 19% of the overall project. A number of extensions were given to the contractor in order to avoid further delay in the good interest of making the hostel facilities to the students but they failed to complete the project. In order to accommodate the students of the campus, block wise handing over was suggested. Subsequently, 496 rooms of the block B were handed over to the Institute in May 2013 and students were staying in this building. In April 2020, during the Covid-19 pandemic period Block – B of Mega hostel I was converted to CFLTC (Covid-19 First Line Treatment center by the Health Department of Kerala) by the District Administration and was given back to the Institute in 2021. Currently, the B Block (17,450 sqm) is occupied by students. Since no maintenance was carried out even after nine years of construction, the interior of many

rooms appears shabby and leakages in the toilets and roof are reported. Urgent maintenance is therefore essential before accommodating students. An estimate amounting R.s 67.00 Lakhs is prepared as per DSR 2018 with a cost index as of 36.44% at Calicut.

The BWC deliberated over the estimate and recommended for the approval of estimate for Rs.67.00 Lakhs for the urgent maintenance works of B Block of Mega Hostel –I including interior painting work

2022:01:03 - Consideration of proposal for renovation of Guest house including attached bathrooms

The committee observed that the Guest House building of the campus is constructed for arranging accommodation for Institute guests visiting the campus from the Ministry, External expert invited for various interviews and other events. The building is provided with twenty bath attached bedrooms with a waiting lounge, Conference hall common dining block, kitchen, etc. The entire building is having two floors with a total plinth area of 1544.54sqm. At present the interior of the guest rooms is provided with minimum facilities. Adding to that, dampness has been observed over the walls adjacent to toilet with unsightly appearance. The entire toilet tiles, fittings and the water closet are very old. The Institute is regularly conducting recruitments to various vacant posts and is hosting VIPs/ Institute guests most of the time. Therefore, the guest house facilities are to be upgraded to befitting standards on urgent basis. Now, as a first step, it is proposed to renovate the Ground Floor rooms and an estimate amounting Rs 42.60 Lakhs is proposed with adequate facilities prepared based on DSR 2018 of CPWD with cost index as of 36.44% at Calicut. Once Ground floor is renovated, the other floor and amenities shall be renovated.

The BWC deliberated over the estimate and recommended for the approval of estimate for Rs.42.60 Lakhs for the first phase renovation of Guest house in Ground Floor Rooms of the including attached bathrooms. The first floor and other amenities of guest house can be renovated in second phase upon completion of the first phase. The expenditure shall be within the BWC powers and to be reported prior incurring expenditure.

2022:01:04 - Consideration of proposal for renovation of swimming pool including waterproofing and tiling work

The committee noted that the NIT Calicut is committed to provide technical education in Engineering, Architecture and Management to students from various parts of the country. Majority of the students as well as the faculties and their families reside in the Campus. NIT Calicut is committed to develop infrastructures required for the students to upgrade their skills in academic, sports, arts, etc. The physical fitness of the students along with the academic studies is a major concern of the Institute. The Institute has therefore developed various grounds, indoor stadiums, gymnasiums, swimming pool, etc in the campus. The swimming pool constructed 25 years ago is having a dimension of 25×13 sqm. area with an average depth of 3.0 m with an approximate capacity of thousand cubic meters. Students as well as faculties are utilising this swimming pool. Since its construction, no major maintenance works were done to this pool. The pool tiles are broken due to old age and a considerable water leakage is also identified. The compound walls of the pool also is very old and require urgent repair. Urgent renovation work is therefore mandatory. An estimate amounting R.s 51.70 Lakhs is prepared as per DSR 2018 of CPWD with a cost index of 36.44% at Calicut.

The BWC deliberated over the estimate and recommended for the approval of estimate for Rs.51.70 Lakhs for the renovation of swimming pool including waterproofing and tiling work

2022:01:05 - Consideration of proposal for a new building for Water Resource Engineering

It was informed in the meeting that the *Water Resource Engineering* is a M.Tech. program of Civil Engg Department. This program is facing acute shortage of adequate laboratory spaces for housing various equipment. Presently, some space in the offshore structures laboratory is being utilized and it will not be possible to continue this arrangement for long as it will hamper their work.

The committee discussed over the fact that Under the ongoing project “Capacity building in dam safety related areas” funded under DRIP I by the ministry of Jal Sakthi, procurement of items related to physical modeling is in progress. The items procured can be put to effective use only if there is space for conducting physical model studies. Further, the

department has been approached by Dept. of Water Resource, Govt. of Kerala, on a couple of occasions for conducting physical model studies on hydraulic structures. However, these could not be taken up due to the same space problem. Further, the items procured under the funding under DRIP I has to be housed at a single location as the ministry of Jal Sakthi is proposing that institution supported by it in the first phase of the project will take up some work-related to dam rehabilitation.

In addition to the above, the accreditation of the M Tech program in water resources engineering is required to be initiated in the next phase of accreditation for which a dedicated laboratory space is an essential requirement. To address all these space related issues, the Dept. of Civil Engineering proposed a new building with a plinth area of 568 sqm. A plinth area estimate amounting Rs 181.72 Lakhs is prepared based on DSR 2018 of CPWD with a cost index of 36.44% at Calicut.

The BWC deliberated over the estimate and recommended for the approval of estimate for Rs. 181.72 Lakhs for the new building for Water Resource Engineering. The committee also recommended to entrust the work to any agency following GFR Guidelines of GoI after calling expression of interest.

2022:01:06 - Consideration of proposal for a new dedicated water supply line from Koolimadu to NITC

The committee was informed that the NIT Calicut is presently offering 11 UG programmes, 31 PG programmes and Ph.D. programmes in 15 academic departments/schools. The population of campus is approximately 7000 and the quantity of water required is 20 lakh liters per day. The daily requirement of water is met by pumping water from nearby Cherupuzha River and the pumping station is located at Kurungattukadavu. The present student enrolment is 6300 and this will be increasing further due to new programmes and implementation of reservation for EWS students and therefore the water demand will increase in the recent future.

The committee also noted that the Cherupuzha River drains out during summer causing problems every year to supply the required quantity of water to the Campus Even though options such as open/bore wells in the campus and rain water harvesting are being explored, those options are not likely to meet the daily water requirement due to steep terrain of the campus area and the nature of underground strata of soil.

Under these circumstances three schemes of water supply to the campus were placed before BWC held on 17.01.2019.

Scheme-1. Supply of water through a dedicated line from pumping station of Kerala Water Authority (KWA) at Koolimadu.

Scheme-2. Supply of water from Japan International Cooperation Agency (JICA) water tank at Pathimangalam.

Scheme-3. Construction of regulator-cum-bridge in Cherupuzha river at Mannilamkadavu, which is downstream of existing intake point of water for NIT Calicut.

The BWC, after deliberations had decided to constitute a committee for detailed studies of the above proposals. The committee submitted the following report recommendations.

1. To retain and maintain the existing infrastructure for pumping and treatment of water at NITC for the reasons mentioned above.
2. To meet the additional demand of water by drawing water from pumping station of Kerala Water Authority (KWA) at Koolimadu through a dedicated line.

As per the Detailed Engineering Report (DER) submitted by KWA and subsequent clarifications provided by KWA, the following aspects of the dedicated water supply line was approved by the BWC dated 19.06.2019.

- Treated water will be tapped from water treatment plant at Mavoor and will be pumped to OH service reservoir of 2 lakhs liter capacity at NITC.
- Water will be pumped to NITC using a 250 mm DI K9 pipe for a length of 10.15 km and 2 no. of 35 HP pump set, one being standby.
- The pipe line is a dedicate line to NITC and 2 mld water supply will be ensured to NITC by KWA.
- Water charge has to be paid by NITC based on non-domestic tariff and bills will be raised by KWA from time to time as per prevailing rates applicable non-domestic consumer.
- Minimum water charge demand shall be 25% of NITC demand, i.e., 50 kld.
- After commissioning, usual maintenance of pipe line up to NITC taping point and pump set will be borne by KWA.
- Permission from PWD/local bodies for laying pipeline along the road shall be obtained by NITC and documents for getting permission will be prepared by

KWA. The road reformation charge shall be remitted to PWD/local bodies by NITC directly.

- The project will cost Rs. 840 lakhs and will take nine months for completion. The project will be implemented by Kerala Water Authority.

Pursuant to this, KWA requested NITC to deposit the amount and for initiating the MoU in this regard. However, due to some technical issues and the pandemic situation, the follow up was delayed.

Later, in the light of the fact that the present water supply system may not be able to cater to the future needs of the growing campus, the NITC officials visited the office of the CE, KWA, Calicut on 09-02-2022 and discussed the possibility of continuing with the project with a revised demand of 3 MLD. This enhancement is proposed considering the future expansion and subsequent increase in demand of the Institute. As this requires a revised estimate, a request to KWA for preparing a revised estimate was given. Subsequent to this KWA has submitted a revised estimate of Rs. 1140 lakhs.

The BWC deliberated over the alignment and the estimate for the new dedicated water supply line from Koolimadu to NITC and recommended the approval for the estimate of Rs. 1140 Lakhs for a new dedicated water supply line from Koolimadu to NITC as a deposit work as per the terms and conditions agreed upon by KWA and NITC and to earmark this amount from the Internal Revenue Generation of the Institute.

2022:01:07 - Consideration of status for arbitration case between ERA infra and NIT Calicut regarding the construction of Mega Hostel – I and current status of work.

The following status was discussed in the meeting:-

The Mega Hostel-1 Project was envisaged to provide all-inclusive Mega Scale hostel facilities for students. M/s. Pithavadian and Partners, Chennai has been appointed as Architect/Consultant for the Mega Hostel-1 Project. They have executed an agreement with NITC for providing Architectural Engineering Service and Total Project management for the Mega Hostel-1 Project. The total built-up area of the hostel is 44,731 Sqm comprising four interconnected building blocks (Blocks A, B, C & D).

Based on a pre-qualification and bidding process, M/s ERA Infra Engineering ltd., New Delhi quoted the lowest amount of Rs. 88.79 Crore for Civil, Electrical and fire fighting works and was selected as the contractor for the project. The work order was issued

on 29 December 2008 and agreement between contractor and NITC was signed on 30 January 2009 via the Agreement No. 44/2008-09. The stipulated time for completion of the project was 30 months. The project site was handed over to the contractor on l5 February 2009. Based on the date of handing over of the site, the work should have been completed by l4 August 2011.

But the Contractor failed and neglected to perform their part of the agreement and on account of the delay, default and breach on the part of Contractor, the project was not completed within the agreed and stipulated date of completion (14.08.2011). To avoid any unnecessary precipitation of the matter and consequent delay, NITC had granted extension of time at the request of the Contractor from 14.8.2011 till 12.6.2015 on 7 instances and on execution of 7 supplemental agreements. In spite of the said extensions, the Contractor failed and neglected to complete the project causing much loss, injury and hardship to the Institute and the students, and though imposition of penalty was suggested for the extensions.

As the indulgence being given by the Institute was found to be misused by the Contractor, further extension was decided to be granted only by imposing liquidated damages (LD) for the delay as contemplated in Clause 50.1 of the Tender Document. Thereafter time was extended from 12.06.2015 to 30.04.2016 at the request of the Contractor imposing liquidated damages for the delayed period, and supplemental agreements executed accordingly. Thus the Contractor had accepted that the delay, default and breach was on their part and accepted R.A Bill Nos. 50 to 63 after deduction of the liquidated damages.

Thereafter, initially the work was progressing as per the program schedule agreed upon by the parties. Supplemental Agreement dated 13.10.2017, and RA Bills Nos.55 onwards were paid after deducting LD which was received by the Contractor without raising any protest or objection. However, later it was reported by the Consultant that the progress of work was not satisfactory. In the meeting of the Project Monitoring Committee held on 08.06.2018, it was informed for the first time about the proceedings before the NCLT to initiate Corporate Insolvency Resolution Process (CIRP) and the order dated 08.05.2018 was brought to the notice of the Institute. Thereafter in the next meeting held on 09.07.2018 wherein the Contractor also participated, the slow progress of the work was discussed and serious concern was expressed about the improbability of completion of the project within the agreed time period of 15th July, 2018. In spite of the concessions granted and duly complied by NITC, the Contractor did not complete the work within the stipulated period, especially on account of their internal failures like shortage of labourers and

materials, lack of co-ordination, improper planning, failure to submit the B.G for an amount of Rs 2.40 Crore, NCLT order, and failure to renew of B.G etc. From the above it is clear that the Contractor is solely responsible for the delay in completion of this project.

In the above circumstances, NITC was constrained to take a decision in the best interest of the students and the Institute to terminate the contract at the risk and cost of the Contractor in the 47th meeting of the Board of Governors [BOG] held on 05.02.2019. A termination letter cum show cause notice dated 26.02.2019 was issued. Specific request to be presented in the site for taking final measurements was made therein which was also not complied with.

In the above circumstance the petitioner/NITC was constrained to approach the Hon'ble NCLT praying for directions facilitating the completion of the final measurements and reconciliation of the works done by the Contractor vide CA-2840(PB)/2019, and the NCLT as per Order dated 10.01.2020 allowed the same. In the said order the delay, default and breach on the part of the Contractor was condemned, execution of supplemental agreements and the failure of the Contractor to comply with the same, termination of agreement, were duly noted, and direction to cooperate with taking of final measurements and reconciliation facilitating rearrangement of work with CPWD given. Pursuant to this all measurements were completed on 27.02.2020 in the presence of the representative of the Contractor/RP. The order is not challenged and is binding on the Contractor. It is pertinent to point out that during the final measurements and reconciliation, the Contractor did not raise any claims regarding escalation or regarding any non-scheduled/extra items or interest.

After their termination, the contractor had filed a petition (O.P ATE 57/2021) in the Hon'ble High court of Kerala for recommencing the arbitration proceedings. The Hon'ble High court of Kerala allowed the petition with strict condition that all expenses have to be borne by the contractor including depositing the arbitrator fees as per fourth schedule of arbitration and conciliation Act. Based on that the arbitration proceedings were recommenced on September 2021. Thereafter 10 more sittings were held on various dates on virtual/physical modes. Subsequent to that the final argument was held on 23rd, 24th & 25th of April 2022 at Ernakulum. Our Institute officials along with Consultant and the Contractor attended the hearing.

The Institute learned counsel has billed Rs.35 Lakhs + Expenses as the advocate fees in this matter. The claim amount as per the Statement of Claim (SOC) of the contractor is Rs. 2405 lakhs.

The BWC noted that the arbitration procedure was completed and the final judgement is awaited. Committee also noted the bill submitted by the Institute learned council. The Committee recommended that the amount billed by the Counsel may be verified with the standard norms promulgated by the Ministry of Law & Justice for such arbitrations.

The BWC noted that the balance work of Mega Hostel I was entrusted to CPWD and that CPWD has prepared the preliminary estimate. It was also noted that the tender procedures have not yet commenced. The committee instructed CPWD to expedite the tender process and start the work within a period of one month.

The BWC also suggested that a detailed letter to DG, CPWD on issues pertaining to CPWD may be written by the Director keeping MoE informed.

2022:01:08 - Consideration of ratification of approval for urgent renovation work of fluid mechanics lab includes replacement of AC roof sheet by GI sheet.

The committee noted that the roofing of the fluid mechanics lab was constructed with AC sheet about 50 years ago and the condition of roof is very bad at various locations. The roof leakage in the lab is creating lot of nuisance and damages to the costly equipments inside. An estimate amounting Rs 32.00 Lakhs was prepared as per DSR 2018 with a cost index of 36.44% at Calicut. The estimate includes replacing the existing AC roof sheet with GI Trafford sheet and some minor repair works. Considering the urgency of the work, E-tender was published in the central government website. Four bidders participated in the E-Tendering process. The lowest amount of Rs.31,71,750 was quoted by the contractor and was accepted by the Institute competent authority for executing the work. Subsequently work order was issued to the contractor. The action taken may be ratified.

The BWC deliberated over the estimate and recommended for ratification of the award of the work of urgent renovation of fluid mechanics lab including replacement of AC roof sheet by GI sheet, to the contractor for the quoted amount of Rs.31,71,750/-.

2022:01:09 - Consideration of proposal for the urgent maintenance works of main building including replacing damaged AC roof sheet with sandwich sheet.

It was noted in the meeting that the main building of NIT Calicut is the main block as the name indicates and is the centre of attraction of the Campus being the first building constructed for the Regional Engineering College, fifty years ago. Presently the building houses departmental offices, lecture halls, CNC, the security office etc. The top most floor of the building is having large drawing halls where classes and semester exams are conducted. The drawing halls are designed to accommodate 100 students at a time. Due to old age the AC corrugated roof of the building requires immediate replacement as there is leakage at many locations. The replacement of roofing of the East wing is already completed and that of the West wings is under progress. The middle portion of the building is now taken up for the roof replacement work. ln order to have sound and thermal insulation, sandwich Trafford sheets are proposed. Based on the same an estimate amounting Rs. 74,30,000 is prepared as per DSR 2018 with a cost index of 36.44% for Calicut.

The BWC deliberated over the estimate and recommended for the approval of estimate for Rs. 74.30 Lakhs for the urgent maintenance works of main building including replacing damaged AC roof sheet with sandwich sheet. The Committee also accepted the BWTAC recommendation for exploring the provision for the installation of Solar Panels over the roof after reviewing the feasibility.

2022:01:10 - Consideration of proposal for extension of time of completion for the works of SITC of 6 Nos. of lifts for Mega Hostel- I

It is informed in the meeting that the work of SITC of six lifts for Mega Hostel - l was entrusted to M/s. Johnson Private Ltd. for erection of Six passenger lifts and the site was handed over on 15th December 2014 with time of completion as 150 days. The civil works of Mega Hostel-l which was entrusted to M/S. Era Infra Engineering Ltd (EIEL) in 2009 was terminated under risk and cost by the 47th BoG held on 05.02.2019 on account of delay, default and breach on the part of the contractor, M/s EIEL. Out of six passenger lifts, installation of two lifts could not be carried out as the civil works was not completed. The Balance work of Mega Hostel – I is entrusted to the CPWD and the tendering process is under progress. In view of the termination of the civil work, the remaining lifts can be erected only after completing the necessary civil work. In the BWC meeting held on 28.07.2021, the SITC of 6 Nos. of lifts for Mega Hostel-I was extended till 30-06-2022. At

this juncture, the M/s. Johnson Private Ltd. has requested for extension of time of completion up to 30-06 -2023.

The BWC deliberated over the facts and decided to recommend the extension of time till 30/06/2023, for SITC of 6 nos. of lifts by M/s Johnson Pvt. Ltd. at Mega Hostel-I. The committee also accepted recommendation of BWTAC to intimate the matter to CPWD so as to get the balance work of Mega Hostel I finished at the earliest.

2022:01:11 - Consideration of proposal for demolishing dilapidated buildings in the campus.

The committee noted the fact that as per the National Education Policy (NEP 2020) adopted by the Government of India, all the Centrally Funded Institutes (CFIs) have been asked to diversify in the field of education and expand the scope of technical education by increasing the student's intake from the present 1500 per year to 5000 per year. The Campus would have a population of about 12000 residents including students, and would demand the development of a huge infrastructure in the near future. The Institute lacks sufficient land to build additional infrastructure for both academic and residential purpose. The Institute master plan committee has recommended demolition of some of the old and dilapidated building in the campus for future expansion. Also, the on-campus accommodation needs of the faculty community is on high demand owing to the proximity to the workplace and the quality services available inside the campus. When new faculty join after the recent recruitment, the demand will be further increased. Only option is to go for vertical expansion in the available land after identifying the old and non-inhabitable buildings so as to demolish and remove them to release the land for development.

Based on the discussion with the competent authority on the above matter, some of the residential quarters and isolated buildings/utilities are identified which are in a highly dilapidated condition. These buildings are more than 40 years old. As part of this discussion, there is a proposal to build a G+6 building complex or higher, with studio apartments and 2 BHK units. An assessment of the condition of these buildings by an expert committee is mandatory before making any decision on demolition. The details of the committee constituted by the competent authority is enclosed.

The BWC noted that an expert committee has been constituted for giving recommendations for the demolition of dilapidated buildings in the campus. After deliberations it was recommended that demolition of dilapidated buildings in the Campus

may be undertaken based on the recommendations of this expert committee. The progress may be reported in next BWC meetings.

2022:01:11 – Under Any other items, the following issues/points were also discussed and decisions were recorded in the Meeting.

1. The Chairman of the BWC, informed the Committee about several issues with the works entrusted to the CPWD including undue delay in some of the ongoing projects. The representatives from the Ministry opined that, the CPWD may be called for a meeting and may be instructed to give a timeline for the completion of the delayed projects. And if the situation does not improve, ***a detailed report may be sent to the DG, CPWD. The Chairman informed that the Institute wishes to invite expressions of interest for the execution of all major infrastructure projects in future. The Ministry representatives welcomed this suggestion.***

2. Observing that the last BWC Meeting was conducted in July 202, the Ministry representatives mentioned that it is required to hold at least four BWC Meeting every year. ***The Chairman informed that required number of BWC meetings would be convened from now onwards****.*

2. It was noted that DSR 2018 is referred for the preparation of estimates. It was opined that DSR 2021 should have been followed. The Committee recommended that, this may be verified in consultation with the CPWD or any other State Govt. agencies ***and henceforth estimate may be prepared with DSR 2021 or latest published as on date, for all future works****.*

3. The Chairman of the BWC informed that the Institute is celebrating its Diamond Jubilee this year and requested the Ministry Officials for additional/special plan fund allocation. It was also pointed out ***that several buildings of the Institute are very old (more than 50 years old) and hence relief funding for renovation of those kind of buildings was requested****.*

4. Mr. A. Mohammed (SE, KPWD) suggested that waterproofing schemes may be invariably used in the case of renovation and construction of toilets and other areas that are prone to dampness. It was also ***suggested that epoxy grout may be used in place of cement grout for tiling and related works.*** *The Committee appreciated the suggestions and recommended that this may be incorporated in all future works/projects.*

5. Mrs. ***Shaji Sudhakaran (Dy. CE, EC Kozhikode), the newly nominated external member, expressed her gratitude for nominating her in the BWC*** *and remarked that all the proposed works are important and could be approved.*

There being no further points, the meeting was adjourned with a proposal to thank the Chair.

Prof. Prasad Krishna Director, NIT Calicut	
Prof. Sathidevi. P. S Dy. Director, NIT Calicut (invitee)	
Cdr (Dr.) Shamasundara M S Registrar & Secretary BWC, NIT Calicut	
Dr. Naseer M.A. Dean (P&D), NIT Calicut	
Dr. Chithra.K Associate Professor (DAP), NITC, Nominee of BoG, NIT	
Shri. Anil Kumar Director (Finance), Department of Higher Education, MoE, GoI (via Online)	
Mr. M. L. Soni Director (NITs) (via Online)	
Shri. A. Mohammed Superintending Engineer, KPWD (via Online)	
Smt. Shaji Sudhakaran Deputy Chief Engineer, Electrical Circle Kozhikode (via Online)	
Dr. Sajith A S Superintending Engineer(i/c), NIT Calicut (Invitee)	