

SUBJECT NO: 03

Sub: Engg – VUDA – Details of works for which Revised Administrative Sanction accorded and deviations occurred during execution – Draft subject placed before VUDA Board for perusal & approval – Reg.

Agenda Note

It is to submit that Revised Administrative Sanctions were accorded for certain works due to deviations occurred during execution and the details of the same are tabulated hereunder.

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
01	05/2011-12/EE-II/VUDA	Providing BT roads, Slab culverts and CD works and Parking area at uphill Sri Varaha Lakshmi Narasimha Swamy Devasthanam ECV-Rs.195.52 Lakhs TP – 13.56% Less Agt. Amount-Rs.169.01 Lakhs Value of work done-Rs.169.34 Lakhs	O.E. 333.00 S.E. 265.00 W.E. 207.00	12-11-11 06-01-14
<p>Reasons / Justification:</p> <ul style="list-style-type: none"> The quantity of forming embankment with quarry rubbish has been exceeded over the agreement quantity due to variation in ground levels in between the end point of ghat road and Entrance of temple, to negotiate the allowable gradient including camber. In addition, additional quantity of quarry rubbish is required to fill up the existing ditches in the alignment of the road which were not covered in the original estimate. These deviations are found necessary to maintain uniform level as per geometric standards of the hill roads and to suit the site conditions to have free vehicle movement on uphill. During execution of work, SVLN Devasthanam Authorities have requested to increase the width of the road to meet the requirement and as per the ground position for a stretch of 84 Mtrs leading to excess quantity of forming embankment with quarry rubbish. SVLN Devasthanam Authorities desired to provide decorative paver blocks for footpaths in place of ordinary chequer tiles proposed in the sanctioned estimate. Hence deviation occurred and providing decorative paver blocks item supplemented. It is also found necessary to provide cover slabs for the drain constructed along the parking area for free movement of pedestrians and vehicles. <p>Since the subject work was taken up as a Deposit work based on the request of SVLN Devasthanam, Simhachalam, certain modifications/ deviations as noted above were carried out as per the request of Executive officer, Simhachalam Devasthanam according to feasibility of the ground and to meet the requirements</p>				

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	of pilgrims and vehicular traffic on the uphill. However, no excess financial involvement has taken place and the deviations are well within the sanctioned estimate amount only.			
02	406(G)/2012-13/ EE-VI/VUDA	Construction of retaining walls (North side) at Dr.YSR-VUDA Central Park, Old Central Jail premises, Visakhapatnam. ECV-Rs.103.04 Lakhs TP – 4.55% Excess Agt. Amount-Rs.108.67 Lakhs Value of work done-Rs.72.73 Lakhs	O.E.137.00 W.E. 84.50	12-11-12 07-01-14
	<p>Reasons / Justification:</p> <p>Earlier different cross sections were proposed by the consultants for construction of retaining walls according to ground levels as per the layout plan finalized for the development of park. During execution, certain changes/modifications took place in the alignment of external jogging path, cycle track and internal walk ways for better connectivity at Entrance and other junction points inside the park in view of the suggestions made by Senior Citizens and Forum for Better Visakha to improve the circulation of visitors and walkers / cyclists.</p> <p>Accordingly, the Architect has revised the cross sections of the retaining walls at various points duly reducing the heights of retaining walls and deleting at certain places as per the ground position after considering the changes / modifications occurred in the alignment / layout plan. As per the above, the actual execution of retaining walls was carried out and in this process, it is found necessary to remove the existing heaps and mounds in the alignment of jogging track / internal walk ways and adjacent to the retaining walls along with surplus earth resulted during earth work excavation of retaining walls. Besides the above, the quantity of VCC has exceeded due to increase in length of retaining wall at the required places and it is only a minor deviation.</p> <p>Further, since the major parts of retaining walls proposed are reduced or deleted, overall savings is resulted in the final working estimate.</p>			
03	208/2012-13/EE-I/VUDA	Development of "Vaisakhi Stage" (Civil works) for conduct of Cultural Porgrammes near R.K. Beach in Visakhapatnam. ECV-Rs.24.00 Lakhs TP – 3.60% Excess Agt. Amount-Rs.21.52 Lakhs Value of deviation approved - Rs.0.66 Lakhs	O.E. 24.00 W.E. 4.02	31-10-12 29-01-14
	Reasons / Justification:			

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
	<p>As per the existing ground position and according to the suggestion of the Architect, it is found necessary to execute certain items of works as excess quantities and supplemental with the original agreement to suit the design finalized and approved. Hence, the deviations were executed.</p> <p>However, the subject work could not be continued due to restrictions of CRZ Regulations and objections received from Fishermen groups and the work was stalled at the initial stage only. Further it was informed that the said location was ideal and best suited venue to witness the Navy Day Celebrations performed annually by Indian Navy and hence, Naval Authorities requested to keep the above place as it is without any construction or development as there is no other suitable place along R.K. Beach for conduct of Navy Day Celebrations.</p> <p>The subject matter placed before VUDA Board and requested to permit to close the work in the said circumstances. Thereupon VUDA Board has agreed and accorded permission to close the work. Accordingly, the work was closed settling the account for the work carried out partly and deviations as noted above were got approved.</p>			
04	205/2012-13/EE-I/VUDA	Development of "Vaisakhi Stage" (GI Framed Structure) for conduct of Cultural Programmes near R.K. Beach in Visakhapatnam. ECV-Rs.24.74 Lakhs TP – 3.69% Less Agt. Amount-Rs.23.76 Lakhs Value of deviation approved - Rs.5.39 Lakhs	O.E. 29.50 W.E. 8.78	9-11-2012 29-01-14
	<p>Reasons / Justification:</p> <p>As per the existing ground position and according to the suggestion of the Architect, it is found necessary to execute certain items of works as excess quantities and supplemental with the original agreement to suit the design finalized and approved. Hence, the deviations were executed.</p> <p>However the subject work could not be continued due to restrictions of CRZ Regulations and objections received from Fishermen groups and the work was stalled at the initial stage only. Further it was informed that the said location was ideal and best suited venue to witness the Navy Day Celebrations performed annually by Indian Navy and hence, Naval Authorities requested to keep the above place as it is without any construction or development as there is no other suitable place along R.K. Beach for conduct of Navy Day Celebrations.</p> <p>The subject matter placed before VUDA Board and requested to permit to close the work in the said circumstances. Thereupon VUDA Board has agreed and accorded permission to close the work. Accordingly, the work was closed settling the account for the work carried out partly and deviations as noted above were</p>			

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	got approved			
05	406(H)/2012-13/ EE-VI/VUDA	Construction of retaining walls (South side) at Dr.YSR-VUDA Central Park, Old Central Jail premises, Visakhapatnam. ECV-Rs.92.83 Lakhs TP – 4.55% Excess Agt. Amount – Rs.97.05 Lakhs Value of work done-Rs.48.43 Lakhs	O.E..123.00 W.E. 61.50	12-11-12 07-01-14
	<p>Reasons / Justification:</p> <p>Earlier different cross sections were proposed by the consultants for construction of retaining walls according to ground levels as per the layout plan finalized for the development of park. During execution, certain changes/ modifications were taken place in the alignment of external jogging path, cycle track and internal walk ways for better connectivity at Entrance and other junction points inside the park in view of the suggestions made by Senior Citizens and Forum for Better Visakha to improve the circulation of visitors and walkers / cyclists.</p> <p>Accordingly, the Architect has revised the cross sections of the retaining walls at various points duly reducing the heights of retaining walls and deleting at certain places as per the ground position after considering the changes / modifications occurred in the alignment / layout plan. As per the above, the actual execution of retaining walls was carried out and in this process, it is found necessary to remove the existing heaps and mounds in the alignment of jogging track / internal walk ways and adjacent to the retaining walls along with surplus earth resulted during earth work excavation of retaining walls. Besides the above, the quantity of plastering in CM (1: 5) 15 mm thick was exceeded due to increase in length of retaining wall at the required places and it is only a minor deviation.</p> <p>Further, since the major parts of retaining walls proposed are reduced or deleted, overall savings is resulted in the final working estimate.</p>			
06	56/2011-12/EE-VIII/VUDA	Providing GSB, WMM, SDBC layers to Kailasagiri hill top road from Railway track to Telugu Museum. ECV-Rs.40.51 Lakhs TP- 0.99% Less Agt. Value-40.11 Lakhs Value of deviation approved– Rs.7.48 Lakhs	O.E. 63.00 S.E. 47.50 W.E. 41.63	22-11-12 29-01-14
	Reasons / Justification:			

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
	<p>During execution of work, the Chairperson and Members of World Telugu Federation WTF visited the site and after inspection of Museum Building and its surroundings, it is requested to raise the South-West corner of the compound wall built as it is low in height compared to the ground level to comply the Vasthu condition and to fill up the inside area with available earth or other suitable material to make the ground level to facilitate the movement of visitors as it is low lying and looking like a ditch at present.</p> <p>In addition, it is also requested to construct 2 Nos. of AHU rooms outside the Museum Building to keep the ancillary items related to Air – Conditioning units without affecting the elevation of the Building. as directly World Telugu Federation WTF.</p> <p>As such, the deviations in respect of civil works are found necessary and the same were carried out by obtaining permission for the same from the competent authority. Though the said deviations were incorporated the overall working estimate is within the sanctioned amount limit and there is no excess resulted.</p>			
07	01/201314/EE-I/VUDA	<p>Formation of 60'-0" wide Maser Plan Road with BT surface, construction of CD works, SW drains and retaining wall connecting NH-5 Jn., and Ganesh Nagar via Shivashakti Nagar.</p> <p>ECV-Rs.300.29 Lakhs TP- 6.48% Less Agt. Value-280.82 Lakhs Value of deviation approved– Rs.67.43 Lakhs</p>	<p>O.E. 370.00 W.E. 348.00</p>	<p>11-07-13 12-03-14</p>
	<p>Reasons / Justification:</p> <ul style="list-style-type: none"> In the sanctioned estimate, retaining walls cum Storm Water Drains are proposed for both sides of the road with large cross sections without construction of CD works at cross roads. But during execution, it is found necessary to construct CD works where cross roads are meeting as per the ground levels and feasibility to have free flow of drainage on both sides of the road and hence, 17 Nos. of CD works are proposed in place of retaining wall cum drains proposed earlier. Also the sectional dimensions of the Storm Water Drain have been reduced and provided as per the standard designs. Hence, the deviation in quantities of CC Drains and CD works were occurred during execution. Apart from the above, local MLA and residents of the existing colony at the end of Master Plan Road requested VUDA Authorities to extend the road for a length of 120Mts to have access and connectivity to the colony and VUDA layout as there is no road and drainage facility for the same so far. Since the request is genuine and it is necessary for the existing colony, it is proposed to take up the road and drainage related items of works as authorized extras to the original work as the same will benefit the public at large. 			

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
	The said deviations were placed before the Higher Authorities and the same were agreed. The working estimate incorporating the deviations and additional works is worked out within the sanctioned estimate amount due to savings resulted in other items and certain deletions which are not required and hence no excess financial involvement.			
08	17/2012-13/EE-V/VUDA	Construction of DDRC building at Vizianagaram ECV-Rs.25.06 Lakhs TP- 2.25% Excess Agt. Value-Rs.25.62 Lakhs Value of work done –Rs.23.79 Lakhs	O.E. 31.00 W.E. 29.27	06-12-12 07-02-14
	<p>Reasons / Justification:</p> <p>During execution of work, certain items - Supply and fixing of door shutters with 30mm thick with Single & Double leaves, Providing Stainless Steel hand railing for physically handicapped persons and lettering and Logo of DDRC building are executed based on the request of Assistant Director of Physical Handicapped Department, Vizianagaram as the same are essential for functioning of the building and the working estimate incorporating the above deviations is worked out within the sanctioned estimate amount only. As such there is no additional financial involvement.</p>			
09	02/2013-14/EE-I/VUDA	Formation of BT road, CD works, SW Drains to the Master Plan 60' wide road from NH-5 Jn. to Shipyard Layout (Bindranagar Layout) ECV-Rs.60.94 Lakhs TP- 1.30% Less Agt. Value-Rs.60.15 Lakhs Value of deviation approved– Rs.3.07 Lakhs	O.E. 76.00 W.E 76.00	03-06-2013 02-12-2013
	<p>Reasons / Justification:</p> <p>During execution of work, it is found necessary to construct a slab culvert at the Entrance to have continuous drain along the National Highway. The same was not covered in the sanctioned estimate.</p> <p>It is also proposed to provide central median with kerb laid in VCC M20 Grade for a length of 600 Rmt to regulate the traffic and have free flow of vehicles, though it is not covered in the sanctioned estimate.</p> <p>The working estimate incorporating the above deviations is worked out within the sanctioned estimate only due to less tender premium and other savings resulted.</p>			
10	34/2005/EE-IV/VUDA	Formation of Quarry Rubbish, GSB & SDBC Construction of SW Drains and CD Works to Chinamushidiwada. ECV-Rs.169.42 Lakhs	O.E.209.50 W.E.194.00	11.01.2012 17.03.2014

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
		TP- 1.08% Less Agt. Value-Rs.167.59 Lakhs Value of deviation approved- Rs.4.86 Lakhs		
	<p>Reasons / Justification:</p> <p>Since the layout is located on hill slopes and roads are formed connecting different levels from one side to other side initially, in order to keep the gradients of the road are in accordance with the permissible / ruling gradients in case of hilly terrain and hence it became necessary to construct inverts with RR Masonry in foundations for construction of SW Drains on both sides of the road where difference in ground levels of the road and side drain portion is large hence deviation occurred.</p> <p>The Working estimate is worked out within the sanctioned estimate amount due to less tender premium and other savings.</p>			
11	21/2011-12/EE-III/VUDA	Construction of Indoor Stadium at Bheemunipatnam in Vsp. ECV-Rs.190.91 Lakhs TP- 4.91 Excess Agt. Value-Rs.199.99 Lakhs Value of deviations approved- Rs.55.89 Lakhs	O.E.270.00 R.E.309.00	07-08-12 12-03-14
	<p>Reasons / Justification:</p> <p>Earlier Engineering estimates were prepared based on the designs finalized and BOQs furnished by the Architect and sanction was obtained. Accordingly, tenders were finalized and work entrusted. The site for the proposed Indoor Stadium was allotted by District Administration and handed over to VUDA for construction purpose.</p> <p>Since dispute was arisen on the boundaries shown by Revenue Department and objections were raised by the local residents, the site was got resurveyed and boundaries were fixed again. Considering the orientation of the building of Indoor Stadium and approach road alignment from the main road, the architect has finalized the location for construction of building duly avoiding the low lying area partly. Due to variation in ground levels and considering the level of existing main road, it became necessary to fix up the plinth level of the building in such a manner that it is 0.45 M above ground level.</p> <ul style="list-style-type: none"> In view of the above, it is found necessary to raise the columns on lower side to maintain the uniform basement level. 			

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
	<ul style="list-style-type: none"> According to the structural designs approved, the quantities in respect of RCC Footings, Columns, Beams and Slabs & Steel provided in the sanctioned estimate are found to be inadequate and exceeded in actual execution. Since the height of the stadium is about 12 Mts. It is found necessary to provide roof beams at two levels at 6.23 M and 9.43 M height. Thereby the quantities in respect of beams are also increased to some extent. To make the Indoor Stadium more elegant and from structural point of view,(parabolic shape with slope)the roof of the stadium is proposed with galvalume sheet with necessary structural arrangement instead of ordinary AC sheet roofing by the architect. Hence the deviation occurred. Since the other amenities and infrastructure like internal roads, pathways, greenery 33 KV Transformer including site leveling have also been included in the working estimate to complete the project in full shape so as to make functional. <p>Since the above deviations are necessary and absolutely needed in execution for completion of the project as per the design and suggestions of the Architect, the same were carried out during execution duly obtaining necessary permission and additional sanction.</p>			
12	38/2006-07/EE-VII/VUDA	Supply and fixing of certain leftover Water Supply fixtures in Row Housing Scheme (Gated Community) at Rushikonda. ECV-Rs.42.78 Lakhs TP- 5.49% Less Agt. Value-Rs.40.43 Lakhs Value of deviation approved-Rs.5.86 Lakhs	O.E.45.50 W.E.45.48	01.06.2013 27.02.2014
	<p>Reasons / Justification:</p> <p>During execution of work, certain accessories are found to be missing and to be provided which were not foreseen and expected at the time of preparation of estimate to restore the water supply within the units of Row Housing in both ground and first floor. As such deviations were occurred for the items newly provided to make the internal water supply intact and necessary approval was obtained.</p>			
13	15/2011-12/EE-III/II/VUDA	Formation of WBM, BTSD Roads, construction of CC	O.E. 27.75 W.E. 23.71	18-03-12 19-03-14

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
		Drains and providing Water Supply arrangements to Newly carved out plots in Kapuluppada Layout. ECV-Rs.19.05 Lakhs TP-4.69 Excess Agt. Value-Rs.19.94 Lakhs Value of deviations approved-Rs.2.80 Lakhs		
	<p>Reasons / Justification:</p> <p>During progress of work certain additional items of works are necessitated according to the site condition and requirement to complete the balance infrastructure for the newly carved out plots in full shape. As such minor deviations were taken place in respect of road items and culverts and necessary approval was obtained .</p>			
14	14/2011-12/EE-III/V/VUDA	<p>Widening of Ring Road to 100'0" wide and construction of SW Drains, Central Median from Balaji Jn. to Dasannapeta Jn. at Vizianagaram.</p> <p>ECV-Rs.744.26 Lakhs TP-4.86 Excess Agt. Value-Rs.780.43 Lakhs Value of deviations approved-Rs.67.17 Lakhs</p>	<p>O.E. 970.00 W.E. 970.00</p>	<p>09-01-12 20-03-14</p>
	<p>Reasons / Justification:</p> <p>Taking into consideration of the existing alignment and to maintain the uniform width of carriage way along with central median after widening to 100" wide road width to 2 carriage ways (4 lane road) as per the recommendations and specifications of IRC, it is found necessary to execute certain items of works in excess to the provisions made in the sanctioned estimate. Further due to existing services and after shifting the same by the concerned authorities i.e., ULB(Vizianagaram Municipality) & APEPDCL slight variations were occurred in construction of CD works and Storm Water Drains and resulted in deviation in quantities of VRCC and CC to certain extent. Apart from the above, it became inevitable to construct retaining wall on one side of the widened portion of the road where the road is passing adjacent to existing water body and due to which certain quantities have exceeded.</p> <p>The following are the main causes for deviations in quantities and necessity to execute certain supplemental items.</p>			

Sl. No.	Rc.No.	Name of work	Amount (Rs. Lakhs)	Date of Approval
		<ul style="list-style-type: none"> • In order to maintain the prescribed road camber as per standards for both the carriage ways, the quantity of Bitumen Macadam has been increased in actual execution since the present carriage way is provided with single side camber. • To strengthen the sub-base and base of the road (widening portion), it is found necessary to increase the thickness of crust (i.e., base layers – gravel and GSB) since the soils are loose and slushy in nature. • To provide access and joining of the cross roads, it is found necessary to extend the formation of road at crossings and adjoining housing colonies/ layouts existing adjacent to road and at curves the width of berms was also increased. As a result, the quantities of GSB,WMM layers and gravel berms are increased . • During the process of road widening, it became necessary to take up demolition of compound walls, old drains and other structures constructed by Vizianagaram Municipality. • In order to connect the water supply line at the sill level of existing irrigation canal CD work and to restore the water supply, it is found necessary to provide 300mm dia MS pipes and hence it became new item and supplemental. • In addition certain petty items viz., PVC pipes for weep holes, supply and filling of crusher dust etc., were also executed as per the requirement and site conditions during execution to complete the work in full shape. <p>Necessary approval was obtained for the deviations occurred and permitted to carry out the work since there is no additional financial involvement and working estimate is within the sanctioned limit only.</p>		

Hence the matter is placed before VUDA Board for perusal and ratification.

Sl. No.	Subject No.	Subject	Resolutions
4	3	Engg-VUDA-Details of works for which Revised AS accorded & deviations occurred during execution Subject placed before Board for perusal & approval Reg.	Subject to the Verification and confirmation by VC, VUDA on the genuineness of the additional expenditure, the proposal is agreed.
5	4	Engg - VUDA - Conversion of Visakhapatnam to Bheemli Beach Road into four lanes - Proposal of R & B Department - Meeting the cost of land acquisition and shifting of utilities by VUDA - Providing funds to a tune of Rs.18.90 Crores from VUDA - Draft subject placed before VUDA Board for approval - Reg.	Reviewed the earlier decision and agreed to provide the funds as instructed by Government.
6	5	Engg- VUDA- Erosion of Sea - Partial collapse of compound wall on Southern and Eastern sides of Kursura Submarine Museum and caving in of footpath at R.K. Beach - Public concern & apprehension - Visit to CWPRS, Pune by team of officers from VPT, VUDA, GVMC & AU for the development of scheme towards short term & long term measures to be taken up - Board subject placed before Board for perusal and ratification - Reg.	Ratified the expenditure for the visit to CWPRS, Pune; VC is instructed to pursue with GVMC for arriving at permanent measures.
7	6	Engg. - VUDA - Proposals for setting up of IT Tower - Domain specific Innovation and Incubation Centre on IT/ITES in marine petroleum and power by STPI in Association with VUDA behind VUDA office complex, Siripuram, Visakhapatnam - Draft subject placed before Board for perusal and to take a decision - Reg.	Progress of project with STPI is very slow and hence, decided to partner with APIIC; work out further modalities.

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10/11/2014