

## BUTAJIRA GUBRE PROJECT AND CONTRACT INFORMATION

PROJECT PHASE	PROJECT INFORMATION	DESCRIPTION
<b>PROJECT IDENTIFICATION</b>	Project owner	Ethiopian Road Authority
	Sector	Transport
	subsector	Road
	Project name	BUTAJIRA GUBRE Road Project
	Project Location	Western part of South People National and Nationalities (SPNN) Regional State. The route lays in two physiographic divisions of Ethiopia, namely in the main Ethiopian Rift Valley and the western Ethiopian Highlands. The beginning of the project (Butajira) is located 130 km from Addis Ababa along the road Addis Ababa – Alemgena- Hossaena to Butajira town.
	Purpose	To improve the efficiency of transport operation through the reduction of road transport costs, the provision of accessibility to rural areas, & the development of institutional capacity of the road sub-sector at central and regional levels. It also provides easy access to educational and health facilities and market access; lowering the cost of motorized transport that enables a more steady supply of goods/services in to the area and facilitating the movement of agricultural products to market; reducing vehicle maintenance/operational costs; reducing travel time there by increasing the economy of the people contributing its share to the overall economic improvement of the country; and reduction of mud and dust emission associated with health impacts.
	Project description	Construction of 81.9 Km long Butajira-Gubre Road Upgrading project to DS4 Asphalt Concrete Road (Double Bituminous Asphalt Treatment).
<b>PROJECT PREPARATION</b>	Project Scope (main output)	The project consists of upgrading of about 81.9 km two lane single carriageway gravel road to a two lane single carriageway of DS4 standard (ERA's Design Standard 4 Road Classification) double bitumen surface treatment (DBST) asphalt road. The road is designed to a 2x3.5m=7.0m carriageway with variable shoulder of maximum 1.5m on each side for rural section and 14m asphalt carriageway with 2.5m footpath on both sides of the road in town section. The road was initially constructed as two lane single carriage way gravel road, where it was deteriorated for insufficient maintenance
	Environmental impact	<ul style="list-style-type: none"> <li>• Dry wastes from the contractor's camp areas are disposed off into a dug well prepared for this purpose</li> </ul>

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	<ul style="list-style-type: none"> <li>• Lubrication wastes and oils are collected in barrels</li> <li>• Waste water is disposed into septic tanks separately prepared for the consultant and the contractor staffs</li> <li>• Dust pollution due to failure of the contractor to maintain the detour road</li> <li>• However The contractor does not assign environmental engineer for supervision of environmental mitigation measures. The supervision contract didn't include deployment of Environmental Engineer.</li> </ul>
Land and settlement impact	<ul style="list-style-type: none"> <li>• Impact on settlement – several houses, fences, and agricultural lands are affected in the process of road widening.</li> <li>• To date the project has affected 840 households (167 Females &amp; 673 Males)</li> </ul>
Contact details	<p>Ras Abebe Aregay Street            Email: eramail@era.gov.et            p.o.box: 1770            Addis Ababa/Ethiopia</p>
Funding sources	Government of Ethiopia
Project Budget	637.5 Million Birr for the construction and 3.2 million Birr for the supervision service
Project budget Period & date of approval	Approved on 20/05/2010 for the period of July 2010 to June 2015

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<b>PROJECT COMPLETION</b>	Project status (current)	Implementation
	Completion cost (projected)	ETB 571,755,201.34
	Completion date (projected)	17 December 2012
	Scope at completion (projected)	Same as original with the following changes:- <ul style="list-style-type: none"> <li>• Extending the design standard of town section for Butajira town by 770 meters</li> <li>• Change in design for section of the road from KM 84+300 to KM 86 +900 from rural section to town section</li> </ul>
	Reasons for project changes	The period allowed for design and its timing (rainy season) might not allow the selected consulting firm to conduct proper site survey and other design requirements. Excessive rock excavation and lack of reliable retaining wall design might result from such short period of time allocated for design
	Reference to audit and evaluation reports	Not Applicable

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PHASE	CONTRACT INFORMATION	CONSTRUCTION	SUPERVISION
<b>CONTRACT PROCUREMENT</b>	Procuring entity	Ethiopian Road Authority	Ethiopian Road Authority
	Procuring entity contact details	Ras Abebe Aregay Street Email: eramail@era.gov.et p.o.box: 1770 Addis Ababa/Ethiopia	Ras Abebe Aregay Street Email: eramail@era.gov.et p.o.box: 1770 Addis Ababa/Ethiopia
	Procurement process	Open Tender, NCB with Prequalification	Quality and Cost based Selection
	Contract type	construction	Design and supervision
	Contract status (current)	On progress	On progress
	Number of firms tendering	5	13
	Cost estimate	637,497,172.45 Birrs	
	Contract administration entity	Highway Engineers and Consultants (HEC) in JV with PANAF and HAMDA	Ethiopian Road Authority
	Contract title	Construction of 81.7 Km long Butajira-Gubre Road Upgrading project to DS4 Asphalt Concrete Road (Double Bituminous Asphalt Treatment)	Consultancy Service for Supervision of Contract 2: Butajira–Gubre road works contract
	Contract firm(s)	Sunshine Construction PLC	HEC-PANAF-HAMDA JV
	Contract price	621,268,397.39 Birrs	4,801,638.70 Birrs
	Contract scope of work	Upgrading of the 81.7 Km road from its present condition to asphalt concrete (double bituminous surface treatment) with improvement in vertical & horizontal alignment, and rehabilitation & construction of structures.	To fulfill, to the highest professional standard, the role of the Engineer as defined under the works and services contracts, and to supervise the construction works on behalf of ERA.
	Contract duration	1278 calendar days	1278 calendar days
	Contract start date	11 December 2007	24 January 2008

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PHASE	CONTRACT INFORMATION	CONSTRUCTION	SUPERVISION
<b>CONTRACT IMPLEMENTATION</b>	Variation to contract price	-65,798,385.86 Birrs (Saving). This is a net saving from various additions and omissions introduced for the reason mentioned below under the heading "Reason for price changes"	1,043,358.08 Birrs
	Escalation of contract price	156,605,757.47 Birrs	-
	Variation to contract duration	555 Days	555 Days
	Variation to contract scope	<ul style="list-style-type: none"> <li>• Extending the design standard of town section for Butajira town by 770 meters</li> <li>• Change in design for section of the road from KM 84+300 to KM 86 +900 from rural section to town section</li> </ul>	No change
	Reasons for price changes	<ul style="list-style-type: none"> <li>• price adjustment due to escalation of price on cement, fuel &amp; reinforcement bar</li> <li>• Extending the design standard of town section for Butajira town by 770 meters</li> <li>• Change in design for section of the road from KM 84+300 to KM 86 +900 from rural section to town section</li> <li>• Cost saving for the change of excavation material type form rock excavation to common soil excavation</li> <li>• Revision of construction of retaining walls in some spots of the road</li> <li>• Design revision for line shift required due to existing 6" galvanized water pipe and replacement of cutback bitumen asphalt material.</li> <li>• Realignment of centerline in the high cut section road between KM 12+000 to KM 19+500 for the purpose of reducing the huge volume of retaining wall considering scarcity of cement in the country.</li> </ul>	Increment of the time based fee due to extension of the construction period for the reason mentioned in the construction contract under the heading "Reason for duration changes"
	Reasons for duration changes	<ul style="list-style-type: none"> <li>• Extension of 263 days due to shortage of cement</li> <li>• Extension of 87 days due to exceptionally adverse climatic condition and</li> <li>• Extension of 205 days due to absence of suitable aggregate for the recommended cutback bitumen type of MC-3000 around the project root corridor</li> <li>• There is also a delay on the project due to contractor's failure to mobilize asphalt bitumen, grader (expected to mobilize 4 more graders), wagon drill and dynamite.</li> <li>• The contractor has deployed only 45 masons while expected to deploy more than 100. The insufficient effort of the contractor to improve its performance is also among the reasons that contribute for the delay.</li> </ul>	extension of the construction period for the reason mentioned in the construction contract under the heading "Reason for duration changes"
	Reasons for scope changes	The change in scope was initiated by the request of Butajira City Administration Office.	Not Applicable