Government of Telangana Mission Bhagiratha Department

ANNEXURE (See Rule 6) Form -A

Form for seeking prior approval under section 2 of the proposals by the State Governments and other authorities.

PART-1 (To be filed up by User Agency)

	Project Details	:	"Construction of Intake Structure, WTP and Pipelines for Four HMWS Segments (Jangaon, Gajwel, Aliar-Bhongir and Medchal), Sri Komaravelli Mallanna Sagar as a source" Laying of Pipe Line and Construction of Other Structures for safe Drinking Water in Siddipet forest Division, Siddipet District, Telangana State."
	Short narrative of the proposaland project/scheme for which the forest land is required	:	Government of Telangana has taken up Telangana Drinking Water Supply Project "Mission Bhagiratha" which is one of the flagship programmes of the State with a commitment to provide safe, adequate, sustainable and treated drinking water for the entire rural and urban areas of the State except Hyderabad urban agglomeration inside outer Ring Road. As part of Mission Bhagiratha four (4) segments 1) Gajwel 2) Jangaon 3) Alair- Bhongir and 4) Medchal are being covered duly taking treated water from HMWS&SB at 1) Kondapak 2) Pregnapur and 3) Ghanpur 4) Medchal. In view of the present crisis from HMWS&SB and as instructed, it is planned independent system for Mission Bhagiratha for four (4) HMWS Segments by drawing raw water (9.46TMC) from Sri Komaravelli Mallanna Sagar, treat the same in the nearby proposed WTP(540MLD) and pipeline works for the ultimate water demand of the HMWS&SB dependent (4) segments, accordingly the Government has accorded administrative sanction vide G.O. Rt. No.32 dated 22.01.2020 of PR&RD, Govt. of Telangana for an amount of Rs.674.00Crores
(ii)	Map showing the required forest land, boundary of adjoining forest on a 1,50,000 scale map	:	The DGPS survey data overlaid on Topo Sheets & Enclosed.
(iii)	Cost of the project	:	Rs. 674.00 Crores.
(iv)	project in forest area	:	Annexure enclosed
(v)	Cost-benefit analysis	:	Since no alternative route is available to lay Pipe line,
(vi)	Employment likely to be generated	:	Average 50,00,000 Man days.

					An extent of	1.6967 H	ła	
			ID	Division	RF Name	Length_ M	Width- M	Area in Ha
			GLBR	Siddipet	Kondapak		-	0.3206
			2	Siddipet	Kondapak	152.06	4.80	0.0730
			3	Siddipet	Kondapak	71.79	2.60	0.0187
			4	Siddipet	Kondapak	175.61	2.20	0.0386
2	Purpose-wise break-up of		5	Siddipet	Kondapak	100.01	1.60	0.0160
-	the total land required	:	6	Siddipet	Kondapak	200.57	1.60	
			7	Siddipet	Gajwel Shareef	879.77		0.0321
			8	Siddipet	Narsampally		1.60	0.1408
				- Junipet	Zapti	1928.79	1.60	0.3086
			9	Siddipet	Singaipally, Narsampally	2803.08	1.60	0.4485
			10	Siddipet	Zapti Singaipally	1873.74	1.60	0.2998
	Details of displacement of	-		Total	Area	8185.42	17.7	1.6967
3	Details of displacement of people due to the Project, if any	:	Nil					
(i)	Number of families	$\overline{\cdot}$	April 1					
(ii)	Number of scheduled casts/ Scheduled Tribe Families	:		4	N	il Iil		
	Whether clearance under	\dashv				"		
4	Environment (Protection) Act.1986 required (Yes/No)	:	No					
	Undertaking to bear the	-					A. Garage	
-	cost of raising and maintenance of compensatory afforestation and/or penal compensatory							
5	afforestation as well as cost for protection and regeneration of safety zone, etc., as per the scheme prepared by the State Government	:			Enc	losed		
6	Details of Certificates / Documents enclosed as required under the instructions	:			Docur	ments Encl	losed	

"Counter Signed"

Executive Engineer MB-Grid, Div-Gajwel

Superintending Engineer
MB-Circle, Siddipet

Mission Bhagiratha Department Telangana Drinking Water Supply Project

Objectives and Scope

Telangana drinking water supply project (Mission Bhagiratha) is the flagship programme of the state of Telangana. The State Government has embarked on a vision to provide safe, adequate, permanent and sustainable water supply to rural, urban and industrial areas by 2020. Apart from water for domestic use, the project is planned to meet the water needs of commercial entities, industrial units, Special Economic Zones, etc.

The project will be integrated with the existing and ongoing water supply schemes which are sustainable. Balance surface water requirements will be planned from the proposed Telangana Drinking Water Supply Project. The requirement of water for drinking, cooking, domestic need will be taken into account at 100 liters per capita per day (LPCD) for rural areas, 135 LPCD for municipalities/Nagar Panchayaths and 150 LPCD for municipal corporations.

Need of the Project

As part of Mission Bhagiratha four (4) segments 1) Gajwel 2) Janagaon 3) Alair-Bhongir and 4) Medchal are being covered duly taking treated water from HMWS&SB at 1) Kondapak 2) Pregnapur and 3) Ghanpur 4) Medchal. In view of the present crisis from HMWS&SB and as instructed, it is planned independent system for Mission Bhagirartha for four (4) HMWS Segments by drawing raw water (9.46TMC) from Sri Komuravelly Mallanna Sagar, treat the same in the nearby proposed WTP (540MLD) and pipeline works for the ultimate water demand of the HMWS&SB dependent (4) segments, accordingly the Government has accorded administrative sanction vide G.O. Rt. No.32 dated 22.01.2020 of PR&RD, Govt. of Telangana for an amount of Rs.674.00 Crores.

Salient Features:

KALESHWARAM PROJECT: Construction of one barrage across river Godavari at Medigadda near Kaleshwaram, and two more barrages between Medigadda and Sripada Yellampally Project at Annaram & Sundilla and to convey water from SripadaYellampally Project to the command area spread over in 7 districts of Telangana (now 13 districts after reorganization of districts in the state) through components such as canals, tunnels, lift systems, reservoirs, and distributor network for irrigating an ayacut of 18,25,700 acres, besides irrigation, drinking water (30 TMC for twin cities & 10 TMC for enroute villages) & water for industrial use (16 TMC) is also proposed.

Existing HMWSS Projects:

1) Jangaon Segment and Part Gajwel Segment: The treated water is being drawn from the HMWSS sump at Kondapak to the constructed MB sump in the same premises to supply drinking water to the following areas.

Constituencies covered: 1) Gajwel Part 2) Siddipet3) Jangaon 4) Ghanpur 5) Palakurthy

ULBs: Siddipet, Jangaon, Tirumalgiri, and Cheriyal

Habitations: 903, Population: 977118

2) Gajwel Segment: The treated water is being drawn from the HMWSS pumping main at Pregnapur, Gajwel to Komatibanda GLBR to supply drinking water to the following areas.

Constituencies covered: 1) Gajwel 2) Dubbaka

ULBs: Gajwel, Dubbaka and Toopran

Habitations: 425, Population: 624779

3)Alair Bhongir Segment: The treated water is being drawn from the gravity main 2.75ML HMWSS Reservoir at Ghanpur, Medchal to supply drinking water to the following areas.

Constituencies covered: 1) Alair 2) Bhongir

ULBs: Bhongir, Yadagirigutta, Alair

Habitations: 545, Population: 667553

4) **Medchal Segment**: The treated water is being drawn from the 2.75ML HMWSS Reservoir at Ghanpur, Medchal to supply drinking water to the following areas.

Constituencies covered: Medchal

ULBs: Medchal, Shamirpet, and Ghatkesar

Habitations: 85, Population: 274464

Executive Engineer MB-Grid, Div-Gajwel

Superintending Engineer
MB-Circle, Siddipet

Chief Engineer-III
MB, Hyderabad

"Counter Signed"

AN and

Government of Telangana Telangana Drinking Water Supply Project

Justification for locating the Project in Forest area:

As part of Mission Bhagiratha four (4) segments 1) Gajwel 2) Janagaon 3) Alair-Bhongir and 4) Medchal are being covered duly taking treated water from HMWS&SB at 1) Kondapak (200 MLD) 2) Pregnapur (160 MLD) and 3) Ghanpur (150 MLD) 4) Medchal (30MLD). In view of the present crisis from HMWS&SB and as instructed, it is planned independent system for Mission Bhagirartha for four (4) HMWS Segments by drawing raw water (9.06TMC) from Mallanna Sagar, treat the same in the nearby proposed WTP(540MLD) and pipeline works for the ultimate water demand of the HMWS&SB dependent (4) segments.

at Medigadda near Kaleshwaram, and two more barrages between Medigadda and SripadaYellampally Project at Annaram&Sundilla and to convey water from SripadaYellampally Project to the command area spread over in 7 districts of Telangana (now 13 districts after re-organization of districts in the state) through components such as canals, tunnels, lift systems, reservoirs, and distributor network for irrigating an ayacut of 18,25,700 acres against the original proposed ayacut of 16,40,000 acres. Further, it is proposed to stabilize the existing ayacut in other major projects viz., SRSP Stage-I, SRSP Stage-II, Flood Flow Canal, Singur&Nizamsagar projects to an extent of 18,82,970 acres. Besides irrigation, drinking water (30 TMC for twin cities &10 TMC for enroute villages) & water for industrial use (16 TMC) is also proposed.

The objective of Mission Bhagiratha is to supply potable drinking water in adequate quantity, conveniently and as economically as possible. While planning a water supply scheme, it is essential to take into consideration the priorities fixed by the State Government and the overall requirements of the entire region. Engineering parameters such as area and population to be served, the design period, the per capita rate of water supply, other water needs in the area, the nature and location of facilities to be provided, points of water supply intake, water treatment plants have to be established in order to formulate water supply schemes. In this project, the main objective is to prepare water supply plan for the design horizon years for the four HMWSS segments by considering Sri Komuravelly Mallanna

Government of Telangana Telangana Drinking Water Supply Project

Justification for locating the Project in Forest area:

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As part of Mission Bhagiratha four (4) segments 1) Gajwel 2) Janagaon 3) Alair-Bhongir and 4) Medchal are being covered duly taking treated water from HMWS&SB at 1) Kondapak (200 MLD) 2) Pregnapur (160 MLD) and 3) Ghanpur (150 MLD) 4) Medchal (30MLD). In view of the present crisis from HMWS&SB and as instructed, it is planned independent system for Mission Bhagirartha for four (4) HMWS Segments by drawing raw water (9.06TMC) from Mallanna Sagar, treat the same in the nearby proposed WTP(540MLD) and pipeline works for the ultimate water demand of the HMWS&SB dependent (4) segments.

KALESHWARAM PROJECT: Construction of one barrage across river Godavari at Medigadda near Kaleshwaram, and two more barrages between Medigadda and SripadaYellampally Project at Annaram&Sundilla and to convey water from SripadaYellampally Project to the command area spread over in 7 districts of Telangana (now 13 districts after re-organization of districts in the state) through components such as canals, tunnels, lift systems, reservoirs, and distributor network for irrigating an ayacut of 18,25,700 acres against the original proposed ayacut of 16,40,000 acres. Further, it is proposed to stabilize the existing ayacut in other major projects viz., SRSP Stage-I, SRSP Stage-II, Flood Flow Canal, Singur&Nizamsagar projects to an extent of 18,82,970 acres. Besides irrigation, drinking water (30 TMC for twin cities &10 TMC for enroute villages) & water for industrial use (16 TMC) is also proposed.

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Sagar Reservoir (50TMC) as Source in which 10TMC of water is being considered as dead storage.

Justification for location of the proposed project in forest Area:

The Proposed "Laying of Pipeline and Constriction of Other Structures for Drinking Water in Siddipet and Medchal Districts (Four HMWS Segments)" have no other alternative routes to cover all the tapings and the proposed pipelines and structures in the forest area are essential to cover all the tapings in HMWSS Segments of Siddipet and Medchal Segments as per the Hydraulic Designs and Topography of the area the proposed locations are very much essential and there are no other alternative alignments

Cost of the Project: Rs 674.00 Crores

Executive Engineer MB-Grid, Div-Gajwel

Superintending Engineer MB-Circle, Siddipet "Counter Signed"

Chief Engineer-III MB, Hyderabad

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CERTIFICATE FOR COMPENSATORY AFFORESTATION

Mission Bhagiratha Department undertakes to bear the cost of raising and maintenance of Compensatory Afforestation and/or Penal Compensatory Afforestation in any of the degraded forest land if any as per the Scheme prepared by the Forest department in connection with diversion of 1.6967 Ha (Siddipet – 1.6967) of Forest land in Siddipet District for "TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District". We also undertake to pay additional amount if any due to escalation or any changes at later date as per the demand raised by forest authorities.

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer MB-Circle, Siddipet "Counter Signed"

CERTIFICATE

The Mission Bhagiratha (TDWSP) Department has requested the District Collectors of Telangana for Sparing of equivalent Non- Forest land towards CA in lieu of forest land proposed for diversion for "TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District".

Vide Lr. No: AEE1/MB/Forest permission/2020, Date: -2020.

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer
MB-Circle, Siddipet

"Counter Signed"

CERTIFICATE FOR BARE MINIMUM

The Mission Bhagiratha Department hereby certify that the forest land proposed for diversion for the "TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in four HMWSS Segments (Gajwel, Jangaon, Alair-Bhongir and Medchal. Is the barest minimum area for the purpose for which it is proposed I also certify that we will not shift to any area other than the area as mentioned in the proposal. Further, I also certify that no suitable private or Government non forest land is available at the site.

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer MB-Circle, Siddipet "Counter Signed"



PRESENT REQUIREMENT OF FOREST LAND FOR "TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District".

Sl. No.	DESCRIPTION OF LOCATIONS	LENGTH	AREA
1	Total length for Laying of pipeline and other structures in the forest land of Telangana Drinking Water supply Project in Siddipet Division.	(m) 8185.42	Hectare 1.3760
2	GLBR	-	0.3206
	Total Forest Land Area Required	8185.42	1.6967

ID	Division	RF Name	Length_M	Width-M	Area in Ha
GLBR	Siddipet	Kondapak	-	<u>-</u>	0.3206
2	Siddipet	Kondapak	152.06	4.80	0.0730
3	Siddipet	Kondapak	71.79	2.60	0.0187
4	Siddipet	Kondapak	175.61	2.20	0.0386
5	Siddipet	Kondapak	100.01	1.60	0.0160
6	Siddipet	Kondapak	200.57	1.60	0.0321
7	Siddipet	Gajwel Shareef	879.77	1.60	0.1408
8	Siddipet	Narsampally	1928.79	1.60	0.3086
9	Siddipet	Zapti Singaipally, Narsampally	2803.08	1.60	0.4485
10	Ciddingt	•	1873.74	1.60	0.2998
10	Siddipet Total Area	Zapti Singaipally Required	8185.42		1.6967

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer
MB-Circle, Siddipet

"Counter Signed"

Ohief Engineer-III

MB, Hyderabad

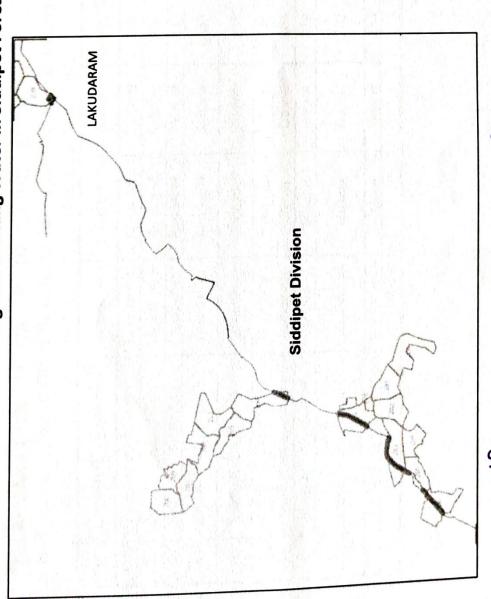
	DETAILS OF	SURVEY INSTRUM	IENTS USED	
S.NO	NAME OF THE AGENCY	INSTRUMENTS USED	PERSONS INVOLVED	PERIOD OF SURVEY
1	TRENDZ GIS	Omni STAR	SHIVA SRINIVAS	SEPT-2020

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer
MB-Circle, Siddipet

"Counter Signed"

FLOW DIAGRAM

"TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District".



Superintending Engineer
MB-Circle, Siddipet

MB-Grid, Div-Gajwel

IEGEND
ITEM Description
Pipeline in Non Forest

"Counter Signed"

Collet Engineer-III

MB, Hyderabad

"TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District".

	1.696729	8185.42	and the second				Total Area		Y.	
	0.2998	1873.74	1.60	286	Gajwel	Mulugu	Vontimamidi	Zapti Singaipall	Siddipet	10
								Narsampally		
	0.4485	2803.08	1.60	283	Gajwel	Mulugu	Cheelasagar	Singaipally,	Siddipet	6
		3						7anti		
	0.3086	1928.79	1.60	579	Gajwel	Mulugu	Mulugu	Narsampally	Siddipet	8
	0.1408	879.77	1.60	264	Gajwel	Gajwel	Mutrajpally	Gajwel Shareef	Siddipet	7
SIDDIPET	0.0321	200.57	1.60	238	Siddipet	Kondapak	Lakudaram	Kondapak	Siddipet	9
	0.0160	100.01	1.60	238	Siddipet	Kondapak	Lakudaram	Kondapak	Siddipet	2
	0.0386	175.61	2.20	238	Siddipet	Kondapak	Lakudaram	Siddipet Kondapak	Siddipet	4
	0.0187	71.79	2.60	238	Siddipet	Kondapak	Lakudaram	Kondapak	Siddipet	က
	0.0730	152.06	4.80	238	Siddipet	Kondapak	Lakudaram	Kondapak	Siddipet	2
	0.3206			238	Siddipet	Kondapak	Lakudaram	Kondapak	Siddipet	GLBR
DISTRICT	Area in Ha	Length_M	Width in Mtrs	Comp_No	Range	Section	Beat	RF Name	Division	Œ
The same of the sa		The same of the sa	The second name of the second na							

"Counter Signed"

Superintending Engineer MB-Circle, Siddipet

MB-Grid, Div-Gajwel **Executive Engineer**

28/11/2020 hief Engineer-III MB, Hyderabad

AREA STATEMENT

"TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District".

D	Division	RF Name	Structure type	Pipe Dia in mm	Width m	Length in m	Area Ha
GLBR	Siddipet	Kondapak	GLBR	and the second state of the second	- N	a dinerali a	0.3206
2	Siddipet	Kondapak	MS Pipes	2200&2600	4.80	152.06	0.0730
3	Siddipet	Kondapak	MS Pipes	2600	2.60	71.79	0.0187
4	Siddipet	Kondapak	MS Pipes	2200	2.20	175.61	0.0386
5 .	Siddipet	Kondapak	MS Pipes	1600	1.60	100.01	0.0160
6	Siddipet	Kondapak	MS Pipes	1600	1.60	200.57	0.0321
7	Siddipet	Gajwel Shareef	MS Pipes	1600	1.60	879.77	0.1408
8	Siddipet	Narsampally	MS Pipes	1600	1.60	1928.79	0.3086
9	Siddipet	Zapti Singaipally, Narsampally	MS Pipes	1600	1.60	2803.08	0.4485
10	Siddipet	Zapti Singaipally	MS Pipes	1600	1.60	1873.74	0.2998
		8185.42	1.6967				

Executive Engineer
MB-Grid, Div-Gajwel

Superintending Engineer
MB-Circle, Siddipet

"Counter Signed"

	COST-BENE	FIT ANALYSIS FOR EVALUATION OF LOSS		
SI.No	Parameter	Evaluation of forest loss due to the project		
1	2	3		
1	Increase inproductivity attributable to the specific project	This will improve the availability safe drinking water in Telangana State to the extent Siddipet, Gajwel, Jangaon, constituencies in Siddipet District in a span of three (3)years.		
2	Benefits to Economy	Basic community needs will be strengthened, Generation of employment, Improvement in the standards of drinking water for people living in the area.		
3	No.of population benefits.	Public in general		
4	Employment potential	Direct employment will be provided for around 100 Nos		
5	Cost of acquisition of facility on non forest land.	Nil		
6	Loss of(a) agricultural & (b) animal husbandry production due to divertion of forest land.	Nil		
7	Cost of rehabilitating the displaced persons as different from amounts given for displacement.	Nil		
8	Cost of supply of fuel wood to workers residing in or near forest area during the period of construction.	No fuel wood will be used for any purpose.		

Executive Engineer MB-Grid, Div-Gajwel

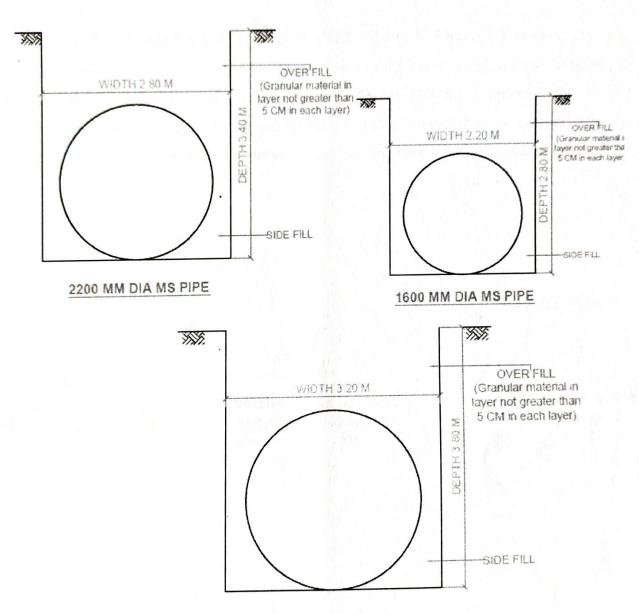
Superintending Engineer
MB-Circle, Siddipet

"Counter Signed"

Chief Engineer-III MB, Hyderabad

22

"TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District".



2600 MM DIA MS PIPE

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer
MB-Circle, Siddipet

Chief Engineer-III
MB, Hyderabad

"Counter Signed"

CERTIFICATE FOR PAYMENT OF NET PRESENT VALUE

THE TELANGANA DRINKING WATER SUPPLY PROJECT undertake to pay the cost of Net Present Value/Addl.Net Present Value of the Forest Land to be diverted as per orders of the State Government /Government of India and Hon'ble Supreme Courts in this regard, as and when the demand is raised by the forest Department. We also undertake to pay additional NPV amount, if any, by virtue of Hon'ble Supreme Court of India orders at later stage.

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer MB-Circle, Siddipet "Counter Signed"

CERTIFICATE

Undertaking to pay cost of exploration of Tree Growth in diverted forest area and also bear the escalation Costs

We do hereby give an unconditional and irreversible undertaking to pay the cost of exploration of the Tree Growth in the forest land proposed for diversion under the project "TELANGANA DRINKING WATER SUPPLY PROJECT (MISSION BHAGIRATHA) for Laying of Pipe line and construction of Other Structures for Providing safe Drinking Water in Siddipet Forest Division, Siddipet District". As and when demanded by the forest department and also undertake to pay the additional amount if any due to escalation or any other changes at later date as per the demand raised by the forest authorities.

Executive Engineer MB-Grid, Div-Gajwel Superintending Engineer MB-Circle, Siddipet "Counter Signed"