	Location wise Justification for				ect in the Forest Area-Gajwel Grid(10B) Medak Division
Sl No		Proposed Reach	Merits/Demerits	Alternative Alignment	Justification
1		3	4	5	6
1	1	Achayipalli X Road to Dasaralpalli Thanda jn (90 mm dia pipeline)		There is no other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed from 1 to 5 (ie,The pipeline From Achayipalli X Road to Dasaralpalli Thanda jn) falls under Comp No 289 for a length of 483.4780 mts with trench width 0.70 mts.The total area of land divrsion required is 0.0323 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity, if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
2	2	dia pipeline)		There is no other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of pipeline (ie,The pipeline From Thunkimaktha Jn to Thunkimaktha Village) falls under Minajipet RF Comp No 195 for a length of 2179.43 mts with trench width 0.7 mts.The total area of land divrsion required is 0.15 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.
3	3	Imampoor Jn To Imampoor OHSR(90mm dia Pipeline)	This path is located in the forest area and it is the only alternative to approach the Village	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Imampoor Jn To Imampoor OHSR) falls under Palat RF Comp No 183 for a length of 478.777 mts with trench width 0.70 mts.The total area of land divrsion required is 0.03 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.

SI	Set	Proposed Reach	Merits/Demerits	Alternative	Justification
No	No			Alignment	
1 4	3	3 <u>Ramayipalli in To Imampoor</u> <u>Jn (</u> 2 nos 200 mm dia, 90 mm dia pipeline)	is the only alternative	5 There is no other alternative alignment	6 The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Ramayipalli jn To Imampoor Jn) falls under Palat RF Comp No183 for a length of 667.483 mts with trench width 1.10 mts.The total area of land divrsion required is 0.07 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
5	3	Imampoor Jn to Ravelli Jn (2 nos 200mm dia pipeline)	the forest area and it is the only alternative	There is no other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Imampoor Jn to Ravelli Jn) falls under Palat RF Comp No 183 for a length of 600.232 mts with trench width1.00 mts.The total area of land divrsion required is 0.06 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity, if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.
6	3	Ramayipalli jn To Palata Jn (110 mm dia pipeline)	the forest area and it is the only alternative	There is no other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Ramayipalli jn To Palata Jn) falls under Palat RF Comp No183 for a length of 572.465 mts with trench width 0.70 mts.The total area of land divrsion required is 0.04 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.
7	3	Darmarajpalli X road to Rangayippalli (110 mm dia Pipeline)	is the only alternative	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Darmarajpalli X road to Rangayippalli) falls under Munurabad RF Comp No 187 for a length of 312.768 mts with trench width 0.70 mts.The total area of land divrsion required is 0.0226 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.

SI	Set	Proposed Reach	Merits/Demerits	Alternative	Justification
No	No			Alignment	
8	3	3 <u>Konayipalli PT Jn to</u> <u>Konayipalli OHSR</u> (110 mm dia Pipeline)	the forest area and it is the only alternative	5 There is no other alternative alignment	6 The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Konayipalli PT Jn to Konayipalli OHSR)falls under Munurabad RF Comp No 187 for a length of 318.07 mts with trench width 0.70 mts.The total area of land divrsion required is 0.02 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
9	4	Gundreddipalli JN To <u>Malkapur Jn</u> (90 mm dia Pipeline)	the forest area and it is the only alternative	There is no other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Gundreddipalli jn to Malkapoor Jn) falls under Malkapur RF Comp No 178 for a length of 1992.981 mts with trench width0.70 mts.The total area of land divrsion required is0.14 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
10	4	Malkapur Jn to Malkapoor OHSR (90 mm dia Pipeline) 2 places	is the only alternative	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Malapur jn to Malkapur Village) falls under Malkaur RF Comp No198 for a length of 819.889 mts with trench width 0.80 mts.The total area of land divrsion required is 0.07 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity, if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.
11	5	Kamalabad Jn to Banda Narsampalli (300mm dia Pipeline)	is the only alternative	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline FromKamalabad Jn to Banda Narsampalli) falls under Narsampalli RF Comp No282 for a length of 1811.45 mts with trench width 0.90 mts.The total area of land divrsion required is 0.16 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.

SI	Set	Proposed Reach	Merits/Demerits	Alternative	Justification
No	No	-		Alignment	
1	5	3 <u>Kamalabad Jn to Kamalabad</u> <u>Village OHSR</u> (75 mm dia pipeline)	the forest area and it is the only alternative	5 There is no other alternative alignment	6 The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Kamalabad Jn to Kamalabad Village OHSR) falls under Narsampalli RF Comp No 284 for a length of 2064.76 mts with trench width 0.7 mts.The total area of land divrsion required is 0.14 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
13	5	Vantimamidi to Zapthisingayipalli Jn (125 mm dia pipeline)	the forest area and it is the only alternative	There is no other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Vantimamidi to Zapthisingayipalli Jn) falls under Singayipalli RF Comp No 286 for a length of 545.823 mts with trench width 0.70 mts.The total area of land divrsion required is 0.04 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
14	6	<u>Wargal Arch to Kamalabad Jn</u> (300 mm dia Pipeline)	the forest area and it is the only alternative	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Komati banda GLBR to Kamalabad Jn) falls under Narsampalli RF Comp No 279 for a length of 2091.83 mts with trench width 0.9 mts.The total area of land divrsion required is 0.19 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
15	6	Wargal sump Jn to Nagireddipalli Jn (250mm dia Pipeline)	This path is located in the forest area and it is the only alternative to approach the Village	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Wargal sump Jn to Nagireddipalli Jn) falls under Wargal RF Comp No 287 for a length of 594.477 mts with trench width 0.90 mts.The total area of land divrsion required is 0.05 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.

SI	Set	Proposed Reach	Merits/Demerits	Alternative	Justification
No	No			Alignment	
1	7	(1200 mm dia)	the forest area and it is the only alternative	5 There is no other alternative alignment	6 The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Rajeev rahadari to Komatibanda Village) falls under Komatibanda RF Comp No 263 for a length of 273.443 mts with trench width 1.8 mts.The total area of land divrsion required is 0.5 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
17	7		the forest area and it is the only alternative	There is no other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Komatibanda foot of the hillock to Komatibanda hill top) falls under Komatibanda RF Comp No 262 for a length of 995.189 mts with trench width7.30 mts.The total area of land divrsion required is 0.78 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity, if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
18	7		the forest area and it is the only alternative to approach the	There is no other alternative Elevated Location	The Proposed structure comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, the structures were proposed on top of hillock (ie,The Srtructures like GLBr,OHBR,Transformer Yard,Pump Room and Watchmen Quartes) falls under Komatibanda RF Comp No 262 .The total area of land divrsion required is 1.35 Hec. The Structure proposed on top of Hillock and no other alternate elevated level to propose the Structure as the levels are not permitting to supply the treated water by Gravity.
19	7		is the only alternative	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Rangampet Jn to Rangampet Village)falls under Komatibanda RF Comp No 261 for a length of 1125.79 mts with trench width 0.70 mts.The total area of land divrsion required is 0.08 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.

SI	Set	Proposed Reach	Merits/Demerits	Alternative	Justification
No	No			Alignment	
1		3	4	5	6
20	7	Komatibanda GLBR to Jabbapoor Jn (2 no's 300 mm dia,1 no 350 mm dia and 1no 400 mm dia pipelines)	This path is located in the forest area and it is the only alternative to approach the Village	alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Komatibanda Hillock GLBR to Jabbapoor Jn) falls under Komatibanda RF Comp No 261 for a length of 411.4 mts with trench width 3.80 mts.The total area of land divrsion required is 0.16 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity, if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
21	7	Komatibanda jn to Rangampet jn (300 mm and 450 mm dia pipeline)	This path is located in the forest area and it is the only alternative to approach the Village	other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Komatibanda jn to Rangampet Jn) falls under Komatibanda RF Comp No 260 for a length of 1250.18 mts with trench width1.90 mts.The total area of land divrsion required is 0.24 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
22	7	Rangampet jn to <u>Makthamasanpalli jn</u> (300 mm and 450 mm dia pipeline)	This path is located in the forest area and it is the only alternative to approach the Village	other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Rangampet jn to Makthamasanpalli jn) falls under Komatibanda RF Comp No 260 for a length of 1699.12 mts with trench width1.40 mts.The total area of land divrsion required is 0.24 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases and the project cost increases abnormally.
23	7	Komatibanda Jn To Komatiband hillock (Transmission lines)	This path is located in the forest area and it is the only alternative to approach the Village	other alternative alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the transmission lines From Komatibanda Jn To Komatibanda Hillock) falls under Komatinanda RF Comp No 262 for a length of 995.1890 mts with trench width 0.5 mts.The total area of land divrsion required is 0.05 Hec.The alignment is proposed to lay the Transmission line.

Sl	Set	Proposed Reach	Merits/Demerits	Alternative	Justification
No	No			Alignment	
1		3	4	5	6
24	8	Adavi masid Jn to Kotyal Jn (280 mm dia Pipeline)		alignment	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Adavi masid Jn to Kotyal Jn) falls under Narsampalli RF Comp No 280 for a length of 653.66 mts with trench width 0.80 mts.The total area of land divrsion required is 0.05 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity, if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.
25	8	Bavanandapoor Jn to Ashramam Jn (160 mm dia Pipeline)	This path is located in the forest area and it is the only alternative to approach the Village	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Bavanandapoor OHSR Jn to Ashramam Jn) falls under Comp No 275 for a length of 533.723 mts with trench width 0.80 mts.The total area of land divrsion required is 0.04Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.
26	9	Mathpalli jn to Mathpalli village (160 mm dia Pipeline)	This path is located in the forest area and it is the only alternative to approach the Village	other	The Proposed pipeline comes under Segment 10B of TDWSP (Telangana Drinking Water Supply Project).From segment 10B of TDWSP pipeline Network, a part of the pipeline proposed (ie,The pipeline From Mathpalli jn to Mathpalli village) falls under Kondapaka RF Comp No238 for a length of 277.34 mts with trench width 0.80 mts.The total area of land divrsion required is 0.020 Hec.The pipeline alignment proposed lay the pipeline is in the "RIGHT OF WAY" of the Existing road and There is "NO" other alternate alignment to propose the pipeline as the levels are not pwrmitting tosupply the treated water by Gravity,if any change of alignment the length of pipeline increases abnormally and requires additional pumping ,there by cost of pumping ,additional length of pipeline cost increases abnormally.

GOVERNMENT OF TELANGANA RURAL WATER SUPPLY AND SANITATION DEPARTMENT Justification for location the project in forest area

project in forest area :

Justification for location of the The proposed "Laying of Pipe Line and Construction of Other Structures for safe Drinking Water in Medak District -

Segment 10B."

have no other alternative routes to cover all the habitations and the proposed Pipelines and Structures in the Forest Area are essential to cover all the habitations in segment-10B of the Medak District 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. 700.00 Crores.

Superintending Engineer, RWS&S TDWSP, Medak.

"Counter Signed"

Chief Engineer RWS&S TDWSP, Hyderabad